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No. 2948
VOL. CXXV

AUGUST 8, 1936

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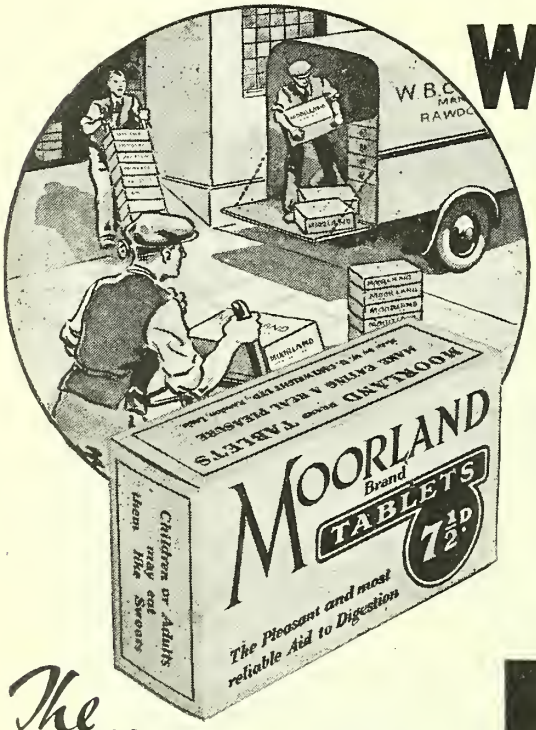

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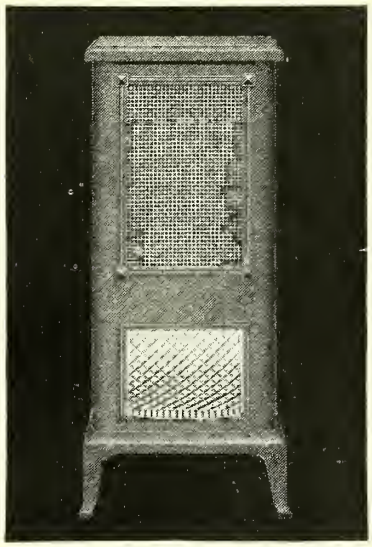

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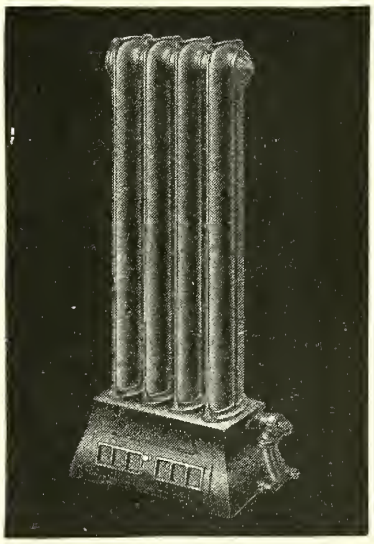

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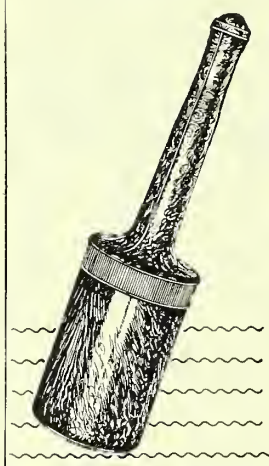
The latest device for softening and perfuming water



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TO WHOM IT MAY CONCERN

IN THE HIGH COURT OF JUSTICE

CHANCERY DIVISION 1936 M. 1807

MR. JUSTICE CROSSMAN

WEDNESDAY the 24th day of JUNE 1936

BETWEEN MACLEANS LIMITED Plaintiffs

and

HILAREEN PERFUMERY COMPANY LIMITED carrying on business as PINERAY DRUG COMPANY Defendants

UPON MOTION for an Injunction on 19th June 1936 made unto this Court by Counsel for the Plaintiffs and UPON HEARING Counsel for the Defendants and UPON READING the Writ of Summons issued 28th May 1936

AND the Plaintiffs and the Defendants by their Counsel desiring that the hearing of the said Motion should be treated as a Motion for Judgment and consenting to this Judgment

AND the Defendants by their Counsel perpetually undertaking for themselves their servants and agents not to pass off stomach powder or stomach tablets not of the Plaintiffs' manufacture or merchandise as or for the Plaintiffs' stomach powder and/or stomach tablets and in particular from using the name "Maclean" or any other name colourably resembling the Plaintiffs' name "Macleans" or the Plaintiffs' Trade Mark "Maclean" in connection with stomach powder and/or stomach tablets in any manner calculated to pass off stomach powder and/or stomach tablets not being the goods of the Plaintiffs as or for the goods of the Plaintiffs and not to sell or supply in response to orders for "Maclean Brand" stomach powder or "Maclean Brand" stomach tablets goods not of the Plaintiffs' manufacture and/or merchandise without clearly indicating that the said goods are not goods of the Plaintiffs.

THIS COURT DOTH ORDER that the Defendants do forthwith deliver up to the Plaintiffs upon oath if required all cartons similar to Exhibits W.H.3 and W.H.4 and all labels and literature in their possession or power the use of which would constitute a breach of the said Undertaking

AND the Defendants by their Counsel undertaking forthwith to destroy or recrush upon oath if required all tablets stamped with the word "Macleans" not of the Plaintiffs' manufacture in their possession or power

IT IS ORDERED that the Defendants do pay to the Plaintiffs their costs of this action to be taxed by the Taxing Master if not agreed.

AND

N THE HIGH COURT OF JUSTICE

CHANCERY DIVISION 1936 M. 1806

MR. JUSTICE FARWELL

TUESDAY the 16th day of JUNE 1936.

BETWEEN MACLEANS LIMITED Plaintiffs

and

G. & F. H. LIMITED Proprietors of HUGHES STORES (a firm) Defendants

UPON MOTION for an Injunction this day made unto this Court by Counsel for the Plaintiffs and UPON HEARING Counsel for the Defendants and UPON READING the Writ of Summons issued 28th May 1936.

AND the Plaintiffs and the Defendants by their Counsel desiring that the hearing of the said Motion be treated as a Motion for Judgment and consenting to this Judgment

THIS COURT DOTH ORDER that the Defendants their servants and agents be perpetually restrained from passing off stomach powder or stomach tablets not of the Plaintiffs' manufacture or merchandise as or for the Plaintiffs' stomach powder or stomach tablets and in particular from using the name "Maclean" or any other name colourably resembling the Plaintiffs' name "Macleans" or the Plaintiffs' Trade Mark "Maclean" in connection with stomach powder or stomach tablets in any manner calculated to pass off stomach powder or stomach tablets not being the goods of the Plaintiffs as or for the goods of the Plaintiffs and from selling or supplying in response to orders for "Maclean Brand" or "Alex Maclean Brand" stomach powder or "Maclean Brand" or "Alex Maclean Brand" stomach tablets goods not of the Plaintiffs' manufacture or merchandise without clearly indicating that the said goods are not goods of the Plaintiffs.

AND the Defendants by their Counsel undertaking forthwith (a) to deliver up to the Plaintiffs or destroy upon oath all cartons or labels in their possession or power similar to the cartons or labels contained in the exhibits J.W.H.L.1 and J.W.H.L.2 and (b) to destroy or recrush upon oath all tablets in their possession or power not of the Plaintiffs' manufacture stamped with the name "Macleans".

IT IS ORDERED that the Defendants do pay to the Plaintiffs their costs of this Action to be taxed by the Taxing Master unless agreed between the parties.

WARNING Similar action will be taken against any other person or persons using the name "Maclean" or "Macleans" in the manner referred to in the above orders or passing off goods not of our manufacture as or for "Maclean Brand Stomach Powder" or "Maclean Brand Stomach Tablets."

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The recognised specific for
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Sells on its reputation to those who know, and on its guarantee to those who don't.
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BONUS of Three bottles with every 3 dozen
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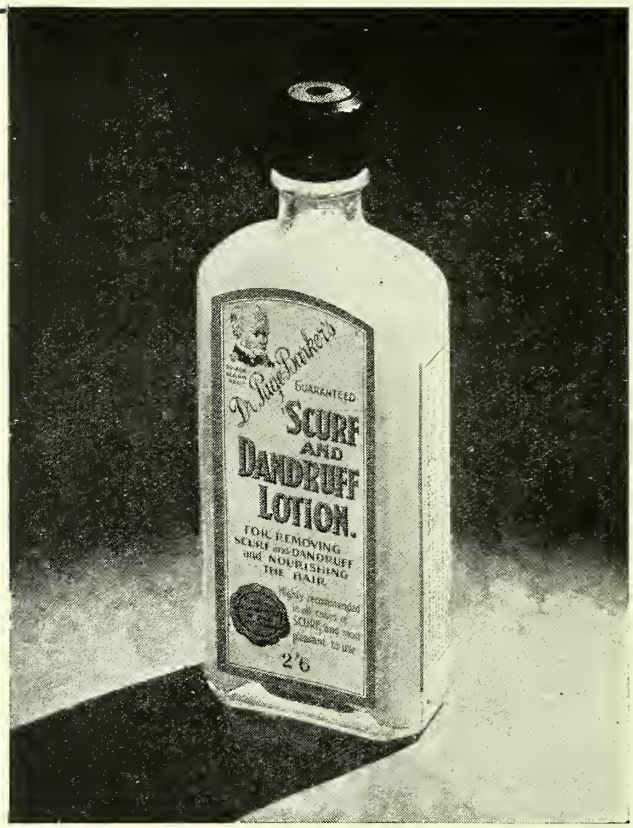

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DOSE
Adults, one to two tea-spoonfuls. Children, half to one tea-spoonful, in water, after meals

COMPOUND
Glycerine
OF
Thymol
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DENTIFRICE, GARGLE, AND NASAL DOUCHE.
As a Mouth Wash.—Add one tea-spoonful to a third of a tumbler of tepid water.
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As a Dentifrice.—Use a few drops on a wet tooth-brush.
As a Nasal Douche.—Add one tea-spoonful to a table-spoonful of warm water.

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Paraffin
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Prepared by a special process for internal administration.
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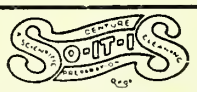

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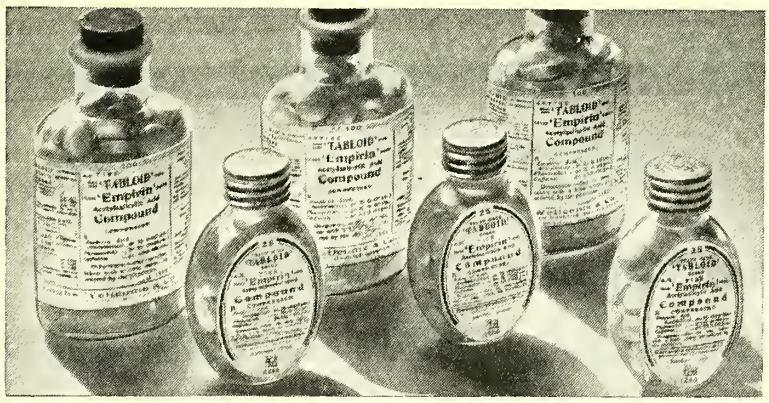

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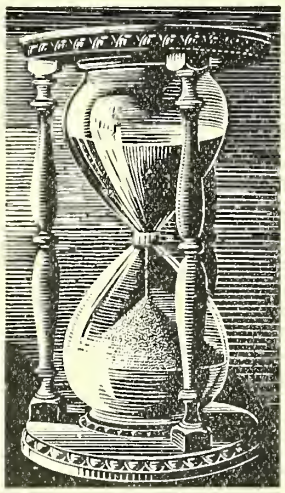

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VOL. 125. NO. 2948 AUGUST 8, 1936

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News of the Week

Select Committee on Medicines Stamp Duties

The Select Committee of the House of Commons appointed to consider the duties of excise chargeable under the Medicines Stamp Act, 1802, the Stamp Act, 1804, and the Medicines Stamp Act, 1812, and any enactment amending those Acts, and to report thereon and make such recommendations for the alteration of those duties or otherwise as they may think fit with a view to reforming the law relating thereto, have agreed to the following special report:—

"Your Committee have met to consider the matters to them referred and, being unable to complete their inquiry, have agreed to recommend that a committee on the same subject be appointed in the next session of Parliament."

The report is published (price 1d.) by H.M. Stationery Office.

Fruit Juice Syrups Regulations

The regulations for designating various grades of fruit juice syrups, referred to in our issue of June 13, have been issued from the Ministry of Agriculture and Fisheries (S.R. & O., 1936, No. 745), and may be obtained (price 1d.) from H.M. Stationery Office. Grade designations and definitions of quality are given in the First Schedule.

British Standards Institution

The British Standards Institution has issued British standard methods for the ultimate analysis of coal and coke and for the analysis of coal ash and coke ash. The recognised analytical methods for the quantitative analysis of mixtures of inorganic oxides are applicable in the usual way to the major constituents, the chief difficulties being overcome by observing certain precautions. In addition to the major constituents, coal ash contains smaller and variable amounts of other constituents which may have an important bearing upon the properties and uses of the coal. Methods for the exact determination of such constituents are still under investigation. It has been recognised that in many instances the full analysis would be too long for certain commercial purposes, and two shortened forms of analysis have been included in appendices to B.S.S. 686-1936. The first short course of analysis, which has been termed "The Rational Method of Analysis of Coal Ash" has been largely based on the work carried out by Dr. Lessing. A shortened method of ash analysis is also included which cuts down considerably the time taken by the standard method.

The standard methods for the ultimate analysis of coal and coke, B.S.S. 687-1936, include determinations of carbon and hydrogen, nitrogen, sulphur, phosphorus, arsenic and chlorine, while methods are included in appendices for the determinations of carbon dioxide and of "sulphate" and "pyritic" sulphur in coal. Copies of those Specifications (Nos. 686 and 687-1936) may be obtained from the British Standards Institution, Publications Department, 28 Victoria Street, London, S.W.1, price 2s. 2d. each post free.

International Congress of Microbiology

The second International Congress of Microbiology, the opening of which in London was referred to in our issue of August 1, continued its sessions for seven days, the total number of papers presented in the eight sections being about 400. The subject of viruses occupied one section for two

days. The viruses dealt with included those of the common cold, foot-and-mouth disease and rabies. Dr. J. Henderson Smith (Rothamsted) stated that the virus of the curly-top disease of sugar beet could infect 300 species of plants. Dr. W. J. Alford discussed the size of particles. Dr. G. H. Eagles adduced evidence suggesting a virus ætiology in rheumatoid arthritis. Pertussis vaccine was the subject of contributions by Professor W. H. Park (New York), Professor Th. Madsen (Denmark), Dr. A. D. Gardner (Oxford) and Dr. N. Silverthorne (Toronto). Dr. R. A. O'Brien and others discussed diphtheria and the value of prophylaxis in relation to it. The subject of pathogenic streptococci attracted a considerable number of speakers. Professor W. W. C. Toyley opened a discussion on antigenic structure; and among other topics was that of drug action and drug resistance. Various social fixtures completed the programme.

Public Analysts' Reports

The Oldham public analyst has reported that during the past quarter he has analysed four samples of camphorated oil, three each of zinc ointment and boric ointment, and two of tincture of iodine. One sample of tincture of iodine was not up to the required standard, and one sample each of boric ointment and zinc ointment showed a slight excess of the active medicament.

The report of the Birmingham city analyst (Mr. H. H. Bagnall, B.Sc.) covering the second quarter of this year contains few items of pharmaceutical interest. The following are noted:—

A sample —— was sold as "Double-Strength" seidlitz powders, and should have contained, in the blue papers, according to the B.P.C., 2.5 grams of sodium bicarbonate and 15 grams of Rochelle salt. The actual amounts present were 2 grams of bicarbonate and 12.6 grams of Rochelle salt, deficiencies of 20 and 16 per cent. respectively. The vendor stated that he sold the powder exactly as received from his wholesale dealers and that he was taking the matter up with them; meanwhile the supply was withdrawn from stock and returned to the wholesale dealers for their examination and explanation. In a later communication from them it was stated that they had for many years made the article from their own formula, which contained less of both ingredients than the Codex formula. They announced their intention of withdrawing the powders from the hands of their customers and making an article according to the Codex in future.

Seven samples of vinegar consisted of artificial vinegar, and in each case the inspector visited the shop, explained the difference between brewed and artificial vinegar and warned the vendors that the latter must not be sold as malt vinegar.

Twenty samples of drugs were taken from the dispensaries under the control of the public health department, and one of these, of 5-grain Blaud's pills, contained only $\frac{1}{3}$ gr. of ferrous carbonate instead of at least 1 gr. The remainder of the iron had oxidised, owing probably to the fact that the pill coatings had disintegrated. The firm responsible for the supply was cautioned.

St. Vincent Association

The B.M.A. Exhibition held in connexion with the recent meeting of the British Medical Association at Oxford was accepted as the best for many years. On July 23 the exhibitors entertained medical guests at a concert at the Assembly Rooms, Carfax. Several ladies were present, and the programme surpassed anything yet achieved in this direction. The chairman (Mr. J. Macvie Hill, B.Sc.), as president of the St. Vincent Association, represented that Association, the Surgical Instrument Manufacturers' Association and the exhibitors as a whole. Late in the evening the president of the British Medical Association (Sir Farquhar Buzzard, Bt., K.C.V.O., M.D., F.R.C.P.) and other prominent officials arrived. Mr. Macvie Hill, in his address of welcome, explained the reasons for a lapse of seven years as due to the break in continuity by the Winnipeg, Melbourne meetings and other disadvantages. Sir Farquhar Buzzard, in his reply, made play with the chairman's joke of how much the profession owed to exhibitors, and expressed the hope that the various firms would be satisfied with the results. The presence of the president was an honour greatly appreciated by those responsible for this happy and successful gathering.

Inquests

The Westminster coroner held an inquest, on July 31, on the body of Mrs. Roark, wife of a retired captain, who accidentally took an overdose of luminal. Sir Bernard Spilsbury said that a person taking luminal would acquire a susceptibility rather than a tolerance. Quite a slight increase in dosage might prove serious. A "Misadventure" verdict was recorded.

At Carshalton, recently, an inquiry was held concerning the death of Mrs. Bartholomew, William Street, who died in hospital after being found burned in her garden. The widower stated in evidence that he thought his wife had been rubbing herself with oil of wintergreen and had then accidentally set herself on fire by striking a match. The coroner said that in many years' practice as a doctor he had prescribed the oil scores of times and used it himself. He did not know before that it was inflammable, and he thought the public should be made aware of the fact. The verdict was "Accidental death."

Sessional Events

On July 30 a party of seventy members and friends of the Birkenhead Chemists' Association paid an enjoyable visit to the works of Lever Brothers, Ltd., at Port Sunlight. The visit, which had been arranged by the secretary, Mr. George L. Hale, included sections of the works to which visitors are not usually taken. After the tour of the works, the party was entertained to tea in the large hall at Port Sunlight, and Mr. Peter Grant took this opportunity to express to the company the thanks of the Association for their hospitality. Mr. F. A. Lawman, chairman of Vinolia, Ltd., responding, said it was always a pleasure to welcome visitors, and particularly customers, to the works. Each member was the recipient of a souvenir, and after tea many of them inspected the Art Gallery and other places of interest in Port Sunlight itself.

A meeting of the Exeter and District Branch of the Pharmaceutical Society was held recently, Mr. F. E. Battershill presiding. The chairman, as branch representative, reported on the Bournemouth meeting of the British Pharmaceutical Conference. Mr. Battershill said he had been much impressed by the ability and knowledge displayed by some of the branch representatives, especially the younger men, who were certainly not afraid to express their views and criticise those in authority. In his opinion the discussions could not fail to have their effect on the future policy and action of the Council. At a meeting of the committee, held earlier, it was resolved to inform the Devon County Council that the Branch would be glad to co-operate in any scheme for dealing with anti-gas defence. It was also reported that an advertisement had been inserted in the local Press drawing attention to the fact that arsenical weed-killers can now only be supplied by chemists.

Portsmouth

Mr. W. L. B. Murray, president of the Portsmouth Chemists' Association, had the misfortune to slip and break his arm recently.

Under the testing scheme for N.H.I. prescriptions no case has been referred to the Pharmaceutical Service Subcommittee during the first six months of this year.

The Pharmacy Department of the Portsmouth Municipal College has again added to its reputation, the July examinations results showing a high percentage of passes. The department will be full to capacity when the session opens in September.

Chemists in all parts of Portsmouth and district are complaining about the general lack of seasonable business, due almost entirely to lack of seasonable weather. Up to now there has been no summer season. There appears to be a large number of visitors in the city, especially at Southsea, but the chemists are not getting any large increase in business.

Miscellaneous

Lighting of Road Vehicles.—Regulations have been issued by the Minister of Transport (S.R. & O., 1936, No. 392: H.M. Stationery Office, 2d.) regarding the lighting of road vehicles.

FIRE.—An outbreak of fire occurred recently at the pharmacy of Mr. W. J. Mouat, chemist and druggist, Twickenham. The damage was not of an extensive nature, and the cause of the outbreak is unknown.

PETROLEUM (PRODUCTION) ACT, 1934.—"The London Gazette" of August 4 announces the grant of prospecting licences to the Anglo-American Co., Ltd., 36 Queen Anne's Gate, London, S.W.1, in respect of certain defined areas in Hampshire and Sussex.

STATISTICS OF LISTED SELLERS.—The chairman of the public health committee of Hampstead (London) Borough Council stated recently that 120 persons had been registered under the Pharmacy and Poisons Act, 1933, and that the cost of notifying them of the regulations amounted to just over £18.

MANGANESE POISONING NOTIFICATION.—The Factory and Workshop (Notification of Diseases) Order, 1936 (S.R. & O., 1936, No. 686) applies the provisions of Sec. 73 (4) of the Factory and Workshop Act, 1901, as from August 1, 1936, to cases of manganese poisoning occurring in a factory or workshop.

DUTCH EAST INDIES SANDALWOOD SALE.—A sale by tender of 1,200 piculs of sandalwood will take place at the offices of the Cashier, Division of Timor, Koepang, D.E.I., on November 30, 1936. Further particulars of the six lots of various qualities may be obtained on application to the Director of the Commercial Division of the Colonial Institute, Mauritskade 64, Amsterdam O.

Irish Notes

Pharmaceutical Society of Ireland

The following are the results of the July examinations held by the Pharmaceutical Society of Ireland:—

LICENCE EXAMINATION.—*Honours.* Murphy, T. *Pass* (arranged alphabetically). Connolly, P. J.; Flynn, E. J. J.; Johnson, W. P. P.; O'Connell, John; O'Donnell, Hugh; O'Reilly, J. B.; Riordan, G. I. Twenty-five candidates entered for the examination.

ASSISTANTS' EXAMINATION.—*Pass* (arranged alphabetically). Arnold, Richard Daniel; Bennet, Thomas John; Brooks, Mary; Donnelly, Eileen Mary; Fitzgibbon, Maurice; Gallagher, Francis Joseph; Hogan, Patrick Joseph; Maher, Michael Augustine; Matthews, Kevin; Morrisey, Christopher Matthew; Murphy, Martin Joseph; O'Sullivan, Donal; Quigley, Thomas Enda; Smith, William; Tully, Rose Anne; Walsh, Patrick John. Forty-five candidates entered for the examination.

Brevities

Mr. Edward Cahill, Ph.C., proprietor of Cahill's Medical Hall, 1A Upper Leeson Street, Dublin, is retiring from business and selling his premises.

At Belfast City Commission, on July 24, Patrick McCabe was sentenced to three months' imprisonment for breaking into the pharmacy of Mr. Gilbert J. McKenna, Ph C., Lisburn Road.

In the Dail of the Irish Free State, on July 30, the Minister for Local Government and Public Health, replying to Mr. J. Everett, said that no additional benefits of any kind were being provided for members of the National Health Insurance Society since the termination on July 5, 1936, of the additional benefit schemes adopted by certain approved societies as a result of the third valuation. The average number of members of such approved societies entitled to additional benefits during the five years ended July 5, 1936, was estimated at 87,000. The amount of money available for additional benefits during the five years was £400,217.

Topical Reflections

By Xrayser

The History of Science,

as you indicate on p. 133, is the story of man's attempts to gain exact knowledge of the world by which he is surrounded. It is knowledge which is ever progressing, and makes the text books of twenty, and in some cases ten, years ago of no more value than the paper they contain; a visit to any open-air bookstall will confirm this statement. The devotees of science should have but one aim and ideal, the search for truth, no matter where that search may lead and what conclusions are arrived at. The average scientist is not a philosopher; it is rare to find the two rôles blended in one man. Such being the case, it is a pity that many scientists are prone to deliver *ex-cathedra* judgments upon all questions just because they are scientists, forgetting that often they see but one colour of the spectrum of truth and their judgments therefore are coloured by this; the philosopher should see all and should be able to synthesise what he sees into conclusions which may become landmarks in the history of thought. I agree with you that science should be international; the ground scientists have to cover to-day is so vast that there should be no overlapping or going over the ground twice by scientists of different nations.

The Passing of Sir Henry Wellcome

is an event of almost international importance (p. 125), so widespread were his benefactions to pharmaceutical and medical science. Your account of his career, with its humble beginning and triumphant close, reads like a chapter from Samuel Smiles's "Self-Help." He will be remembered principally in pharmacy as the inventor of the tabloid, a name which has passed into the language and is used in fields quite remote from our calling. His monument in stone is the Wellcome Research Institution, housing many activities, not the least being the Wellcome Historical Medical Museum. Sir Henry Wellcome became a nationalised British subject, and towards the close of his life he was honoured with distinctions by some of our Universities and other learned bodies as well as by some in the United States. It is given to few pharmacists to acquire great wealth from their calling and to keep that calling free from any suspicion of quackery or make-belief; it may be said that the opportunities of doing so are now fewer than they have ever been. Sir Henry Wellcome was a pioneer; he made money and he spent it in the furtherance of scientific knowledge and in the alleviation of human suffering.

You Strike an Antiquarian Note

in last week's "Retrospect of Fifty Years Ago" (p. 144). Recent research throws further light upon the date when Silvanus Bevan, apothecary, opened his pharmacy at No. 2 Plough Court. The two authorities dealing particularly with the matter, "Plough Court" and "A History of the Bevan Family," place the date of this opening in 1715. It was here, on November 9 of that year, that his marriage to Elizabeth Quare, daughter of Daniel Quare, of Exchange Alley, citizen and clockmaker of London, was celebrated. A full and somewhat humorous account of this is given in the last-named work of reference; that they were well and truly married was attested by no less than ninety-two friends and thirteen relatives. The main interest of the old pharmacy lies in its association with William Allen, first president of the Pharmaceutical Society, scientist and philanthropist. It was here that in 1792 he entered into business, remaining in touch with it till his death in 1843. It is a thousand pities that the old shop, demolished in 1872, has not been preserved, as is the case with that of John Bell, once in Oxford Street and now in the Wellcome Historical Medical Museum. In the room above the Plough Court pharmacy were held some of the meetings at which the founding of the Pharmaceutical Society was discussed. Seated round the table, with the "Chimney piece with a pannell over it painted with a land Skipp" in full view, were at different times such men as Lord Brougham, Thomas Clarkson, William Wilberforce and others engaged in those works of benevolence for which they and William Allen were noted.

Items in Parliament

Revenue from Medicine Stamps

In reply to a question by Mr. Holmes, the Chancellor of the Exchequer gave, on July 30, the total net receipts from the sale of medicine stamps from the year 1920-21 to date. (The figures for the years 1800-1934 inclusive were published in *The Chemist and Druggist Diary and Year-Book*, 1936 (p. 286), and those for the year 1934-35 in our issue of January 11 (p. 50). The amount for last year is £747,930.)

Hairdressers (Registration) Bill

In the House of Commons, on July 29, a Bill "to provide for the registration of hairdressers and to regulate the practice of hairdressing; and for purposes connected therewith" was presented by Mr. Compton, supported by Mr. Barr, Colonel Baldwin-Webb, Sir John Haslam, Mr. Chorlton, Mr. Magnay, Mr. Temple Morris, Mr. Chater, and Mr. Kelly. The Bill is to be read a second time on October 29. It is obtainable (price 3d.) at H.M. Stationery Office.

Government Lymph Establishment

Mrs. Tate asked the Minister of Health to state the sum spent annually by the Government, including overhead charges, on the preparation of vaccine lymph at the Government lymph establishment at Hendon?

Sir K. Wood: The gross cost of the Government lymph establishment in the year 1935-36 was approximately £14,000. No charge is made for vaccine lymph supplied to public vaccinators or to medical officers of health. Receipts from other sources amounted to £1,627.

Bills Passed

Among the Bills to which the Royal assent was given on July 31 were the Public Health Bill and the Shops (Sunday Trading Restriction) Bill. Schedule I (*g*) of the latter Act reads as follows, in accordance with an amendment introduced into the Bill during its passage through the House of Lords:—

"Medicines and medical and surgical appliances

"(i) at any premises registered under Section twelve of the Pharmacy and Poisons Act, 1933; or

"(ii) by any person who has entered into a contract with an insurance committee under the National Health Insurance Acts, 1924 to 1935, for the supply of drugs and appliances.

French Polishers' Dermatitis

Mr. White asked the Home Secretary whether his attention had been drawn to the prevalence of dermatitis among french polishers; and what action his Department had taken in the matter?

Mr. Lloyd: French polishing has been known for many years to be one of the occupations specially liable to give rise to dermatitis. The most practical and effective remedy appears to lie in increased care of the skin and a close watch for signs of the commencement of the disease; and leaflets on the subject have been issued by the Factory Department from time to time. Special inquiries are now in progress, and the position will be carefully reviewed in the light of the result.

Chemists' Fees

Captain Cazalet asked the Minister of Health, on July 28, whether he will take steps to amend the present situation in which chemists' dispensing fees under the National Health Insurance Act are dependent upon the funds which he has available and any deficit in the sums available has to be borne by the chemists?

Sir K. Wood: The present arrangements for the payment of insurance chemists are governed by an agreement made as recently as December last with their representative body, the National Pharmaceutical Union. This agreement, which is more favourable to the chemists than the agreement previously in force, contains a provision that it is not to be terminated before the end of 1938. The question of the revision of the terms does not therefore arise at the present time.

Venereal Disease

Sir A. Wilson asked the Minister of Health, on July 31, whether, in view of the small reduction in fresh cases of venereal disease in the past ten years, he proposed to give effect to the recommendation of the Trevethin Committee in 1923 that the law should be altered so as to permit properly qualified chemists to sell *ad hoc* disinfectants in a form approved and with instructions for use approved by some competent authority?

Sir K. Wood: I am advised that all the available evidence tends to show that the reduction in the incidence of venereal disease in recent years has been considerable. . . . The recommendation referred to by my hon. Friend was carefully considered after the Trevethin Committee had reported, but the conclusion reached was that it would not be practicable to frame any satisfactory legislation to give effect to that recommendation. I see no reason to dissent from that conclusion.

National Pharmaceutical Union

Executive Meetings

Meetings of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4 and 5 Queen Square, London, W.C.1, on July 28, Mr. D. A. Bryan in the chair.

National Health Insurance

The Executive received protests from the Manchester, Sheffield, Worcester, Merthyr Tydfil and Portsmouth Pharmaceutical Committees regarding the state of the drug fund; also a protest from the Devon Pharmaceutical Committee regarding the addition of desiccated stomach to the Tariff. The secretary was instructed to reply, stating that the Executive was watching the position carefully, and within the limits of the present contracts would take whatever action was possible.

Medicine-Stamp Duty

A report was received from the secretary on the action taken in regard to the Select Committee on Medicines Stamp Duty which had been appointed. A special subcommittee was elected, consisting of Messrs. Bryan, French, Marshall, Stearn and Tristram, to deal with the preparation of evidence which the Executive will give before the Committee.

Chemists' Friends Scheme

The Wembley Branch wrote asking that the Executive should receive a deputation to discuss methods of propaganda for the C.F. scheme; the Executive agreed to receive the deputation.

Branch Conference

The Executive decided to hold a Conference of delegates from branches on October 14 to discuss the winter programme for the C.F. scheme, medicine-stamp duty, and other matters, excepting N.H.I.

C.D.A. Matters

The secretary reported that of the eleven cases outstanding since the last meeting of the directors, two might be considered closed, and the following three cases have been settled:—Tomato plants damaged by fumigator, claim settled by payment of £83 3s.; damage to car caused by cycling errand-boy, claim settled for £1 5s.; injuries caused by cycling errand-boy, claim settled for £4 12s.

Thirteen new cases had arisen during the month, of which five had been settled as follows:—Liq. cresolis sap. supplied for liq. picis. carb.; claim settled for £3. Clothing damaged while removing stains (three cases); claims settled for £1 1s., £3 10s. and 17s. 6d. respectively. Sausages in van spoiled by methyl salicyl. bottle breaking; claim settled for £2 11s. 4d.

The secretary reported that a member had been represented at an inquest on a man who had died shortly after taking what was stated to be a dose of asthma mixture prescribed by the member. The verdict returned was "Death from misadventure caused by belladonna poisoning, the preparation having been administered to the deceased by his landlady in mistake for the asthma mixture." The jury had added a rider to the effect that the asthma mixture supplied by the chemist did not contain belladonna or any other poison and was in no way connected with the deceased's death.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

XENTITY, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in chemicals, drugs, patent medicines, etc. Solicitors: Clarke, Square & Co., 28 Bolton Street, W.1.

WARWICK PHARMACALS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of wholesale or retail chemists, etc. The first directors are to be appointed. Solicitors: Ernest G. Scott & Co., 33-4 Broad Street Avenue, E.C.2.

RIDGWAY & CO. (MAESTEG), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in mineral and aerated waters, cordials. . . . The directors are F. Ridgway and P. Ridgway (both permanent).

FANTASTEX, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemical manufacturers, seed merchants, producers of and dealers in products used in agriculture and horticulture. R.O.: Partingdale Manor, Partingdale Lane, Mill Hill. London, N.W.7.

TELL (PHARMACEUTICS), LTD. (P.C.).—Capital £100. Objects: To establish companies and associations . . . and to carry on the business of chemists, druggists, drysalters, oil and colourmen, etc. Solicitors: Cruesemann & Rouse, 41-2 King William Street, London, E.C.4.

LASÈGUE, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of purchasers and sellers of essences, lotions, extracts, oils, soaps, cosmetics, etc. Solicitor: F. G. Maw, Amberley House, Norfolk Street, London, W.C.2.

JAMES MICHIE, LTD. (P.C.).—Capital £2,500. Objects: To acquire the business of a pharmaceutical chemist now carried on by Frederick W. Buchanan at 22 Main Street, Blackrock, co. Dublin, as James Michie. The directors are John O. Arthurs and Eric V. Gill, chemists' assistants.

FYNNON, LTD. (P.C.).—Capital £1,200. Objects: To adopt an agreement with Lilian S. E. Jones, Beryl I. M. Jones and Eirian L. Allanson, and to carry on the business of manufacturers of and dealers in pharmaceutical remedies and preparations, foods, creams, etc. Solicitors: McKenna & Co., 31-34 Basinghall Street, London, E.C.2.

N.D.K. LABORATORIES, LTD.—At a meeting held in London on July 27 it was resolved that this company be wound up voluntarily. Mr. E. C. Shaw, 85 New Oxford Street, London, W.C.1, was appointed liquidator.

Voluntary Liquidations

Major Bradley (Products), Ltd., chemical manufacturers, Oxley Works, Queen Street, Manchester. A meeting of creditors was held on July 31 at 27 Brazennose Street, Manchester. According to a statement of affairs the assets totalled £55, but were subject to preferential claims of £69, and there were no assets available to meet the claims of the unsecured creditors totalling £187. The issued capital of the company was £1,020, and so far as the shareholders were concerned there was a deficiency of £1,221. It was reported that the company was incorporated on August 26, 1935, with a nominal capital of £100, which was increased to £1,500 on April 16, 1936. The activities of the company had never really passed the experimental stage, and very little business appeared to have been done. The purchases had been £290, and the sales approximately £100. Prior to the creditors' meeting the shareholders had met and passed a resolution putting the company into voluntary liquidation, and had nominated Mr. A. Yearsley, Manchester, as liquidator. It was decided to confirm the voluntary liquidation.

West Green Pharmacy, Ltd., 306 West Green Road, Tottenham, N. The statutory meeting of creditors was held recently at the offices of Messrs. Francis Nicholls White & Co., C.A., Cheapside, E.C., when it was stated that the shareholders had passed a resolution nominating Mr. A. Granville White as liquidator of the company. Figures were submitted which showed that the liabilities amounted to £325 4s., and the assets totalled £120. It was stated that there was also a question as to whether a slot machine which was purchased for £185 was the property of the company. It was stated that £39 19s. 8d. had been paid off, and if it could be proved it was the property of the company the assets would be increased by the amount realised from the slot machine and the liabilities increased by £147. The company was incorporated in October 1932, and in the years to October 1934 and 1935, net profits were made of £24 and £166 respectively, but for the nine months trading to July of the present year, on a turnover of £1,080, there was a loss of £154. The creditors passed a resolution confirming the appointment of Mr. White as liquidator with a committee of inspection.

Private Arrangements

Harold Benjamin Hale, 1 St. Ann's Road, Holland Park, London, chemist. A meeting of the creditors herein was held recently at the offices of Mr. Parkin S. Booth, London, E.C., when a statement of affairs was submitted showing liabilities of £738 18s. 3d., of which £397 15s. was due to the trade; there were cash claims amounting to £110; the bank were creditors for 10s. 9d., and there was an amount due in respect of the purchase price of the business of £230 12s. 6d. The assets totalled £230 15s., from which had to be deducted preferential claims of £21 15s., leaving a deficiency of £259 18s. 3d. It was reported that the debtor entered into an agreement to purchase the business on February 1, 1935, for £325. The debtor paid £100 down, and agreed to discharge the balance by five equal instalments. For some time past the debtor had been pressed by his creditors and several judgments had been obtained against him. It was decided that providing the execution creditors withdrew, the matter should be dealt with under a deed of assignment in favour of Mr. Booth, as trustee.

Bankruptcy Reports

Re Robert Robinson, 95 (formerly known as No. 63) Commercial Road, Bournemouth, chemist. This debtor's application for discharge was heard recently at the Law Courts, Bournemouth. The receiving order was made in April 1934 on the debtor's own petition, and it was stated that the liabilities amounted to £337 15s. 4d. The assets available for distribution amongst the creditors were *nil*, instead of £500 10s. 1d. as estimated by the debtor. The debtor said the cause of the decline in his trade was the one-way system of traffic in Commercial Road. The discharge was granted, subject to a suspension of three months.

Re Arthur Dudley Bevan Ventin, 41 Charles Street, Milford Haven, Pembrokeshire, chemist. This debtor's public examination was held recently at the Shirehall, Haverfordwest. According to the statement of affairs returned there were liabilities of £1,046, and no assets. Debtor said his failure was due to illness and lack of capital. He qualified as a chemist in 1921, and entered into partnership with his late employer. Subsequently he commenced trading on his own account at Bridge Street, Haverfordwest, his banking account being guaranteed by another up to £200. That business was sold later for £730, and debtor received £15 after all the expenses had been met. In 1932 debtor opened the business at 41 Charles Street, Milford Haven, and later effected alterations to the property. Asked why he had kept no books of account, debtor said he did not think it was worth it. The examination was adjourned *sine die*.

Gazette

Bankruptcy Acts

RECEIVING ORDER AND ADJUDICATION

LEVY, S. S., 20 Leather Lane, London, E.C., chemists' sundriesman.

ADJUDICATION

GREEN, G., 15 Friar Street, Reading, chemist.

Pharmaceutical Society of Great Britain

Council Meeting

CONCERN at the increase in the number of failures in botany at the examinations was expressed at the meeting of the Council held at 16 Bloomsbury Square on August 5, the president (Mr. T. Marns) in the chair. The matter was introduced by Mr. Wells, who drew attention to the low number of passes in the Preliminary Scientific examinations held in London and Edinburgh. The president pointed out that the examinations were notable for the number of candidates who had sat for them. At this stage the Council went into committee, and the following report of the discussion was supplied officially at the end of the meeting:—

MR. WELLS pointed out that this was the lowest pass in the Preliminary Scientific examination they had ever had.

MR. ANTCLIFFE asked the president if he was satisfied that the tuition in botany was being carried out on the proper lines.

MR. PECK pointed out that the reason for so many failures in botany was probably due to the fact that the students concentrated on two subjects out of the three, namely, chemistry and physics.

MR. MELHUISH pointed out that a number of candidates in fact take the examination in two parts. They enter for the three subjects but concentrate on two only.

MR. PECK said that the subject of botany had been a difficult one for many years. One reason for the failures was that many candidates dislike it as a subject of study.

It was pointed out that a larger proportion of students pass in Edinburgh than in London, and it was asked whether that was due to better training or lower standard. THE SECRETARY said that the standards of botany had been examined by English and Scottish examiners jointly, who had agreed that there was no appreciable difference. In Scotland students sometimes attended a part-time course and then a whole-time course afterwards.

TUESDAY'S PROCEEDINGS

Among the business transacted by the Council on August 4 were the following items:—

A letter was read from the Incorporated Society of Pharmacy and Drug Store Proprietors of Great Britain, Ltd., informing the Council that a letter had been sent by them to their members drawing their attention to the fact that the restriction upon the use of the word "Pharmacy" by Section 3 of the Pharmacy and Poisons Act, 1933, rendered it unlawful for members not registered under the Pharmacy Acts to exhibit the certificate hitherto issued by that Society.

The Council considered a report from a committee appointed by them at their last meeting concerning the evidence to be offered on behalf of the Society to the Select Committee on Medicines Stamp Duty. The position was generally discussed, and the Committee were requested to prepare a draft memorandum of evidence for the Council meeting in October. It was reported that the Society had been invited by the Select Committee to submit its evidence at the end of October.

DEATH

THE PRESIDENT, at the outset of the proceedings on August 5, made a reference to the death of Sir Henry Wellcome, emphasising his deep interest in pharmacy, particularly in the United States, where he helped in the building of the headquarters at Washington.

ABSENT MEMBERS

THE PRESIDENT announced letters of apology for absence from Mr. Jack and Mr. Dick, the latter of whom stated that he was still to ill to undertake the journey to London. The Council decided to send a letter to Mr. Dick expressing the hope that he would soon be completely recovered and be able to resume his work on the Council.

REGISTRATION ITEMS

Three persons were elected student-associates, and authority was given for the restoration to the Registers of Pharmaceutical Chemists and Chemists and Druggists of eighteen persons. It was reported that 106 persons had been restored to the Registers, and the Council decided that several names of persons who had failed to comply with the regulations should be removed. The registrar reported that thirty persons had been registered as apprentices or students.

Under the reciprocity arrangements with overseas countries, Maxwell Strang Jamieson of South Africa, now residing at 64 Hatton Gardon, E.C.1, Rowland George Mackey of South Africa, now residing at 40 Sinclair Road, W.14, and John Andrews of New South Wales, residing at 374 Sutton Common Road, Sutton, Surrey, were registered as chemists and druggists.

NOTICE OF MOTION

On the agenda was the following notice of motion by Mr. McNeal:—That a corps of pharmacists be established and trained in those duties which they would be called upon to perform in the event of war whilst serving with His Majesty's Forces.

No reference was made to the matter during the consideration of public business.

ORGANISATION COMMITTEE

The report of this Committee stated that the following motion, proposed by Mr. Lloyd at the March 1936 meeting of the Committee, was reconsidered:—That to strengthen the branch organisation, areas be arranged in which branches shall be federated, to overcome apathy and thus increase interest in the Council's activities. It was resolved that the question of federation be referred to the branches.

This Committee reported that the Buxton Branch wished that it should be dissolved and the members allocated to the Stockport and Derby branches. The Committee recommended accordingly.

Statistics of representatives present at the Bournemouth Conference meeting showed that the number of representatives appointed was 199; the number who attended 170; and the cost £314.

GREENISH MEMORIAL SCHOLARSHIP

THE PRESIDENT reported that there were twenty-one applications for the award of this scholarship. Mr. Henry Pearce Prance had been selected.

EDUCATION COMMITTEE

The report of this Committee showed that they had approved nine institutions for the Preliminary Scientific examination. The conditions for practical courses of study in the dispensaries of four hospitals were also approved. The Committee agreed that any student who while still at school had satisfactorily completed a two-year post-matriculation course of instruction for the Higher School Certificate examination in chemistry, physics and biology as principal subjects, should be admitted to the Preliminary Scientific examination without further instruction. The Committee agreed that any candidate who by July 1936 completed his instruction for an approved pharmacy degree examination, should for the purpose of exemption from examination in physiology in either of the Society's Qualifying examinations be treated in the same manner as a candidate who had entered for and failed the Society's examination. Subject to due recognition being given in the appropriate places, the Committee granted permission to a teacher to select examination questions from the Preliminary Scientific and the Chemist and Druggist Qualifying examination papers for incorporation at the end of each chapter of a classbook for science students which he proposes to publish.

The Committee recommended that scholarships be awarded as follows:—

Jacob Bell Memorial Scholarship.—Cyril Dalglish Baildon, Yorks.

Leverhulme Scholarship.—(1) Edgar Henry Fagg, Folkestone. (2) and (3) no award.

Manchester Pharmaceutical Association Scholarship.—Kenneth Orlans, Liverpool, 15.

Devon and Cornwall Exhibition.—Gordon John Hendra, Truro.

Nottingham University College Studentship (awarded by the University on the Council's recommendation).—(1) Eileen Mary Abbott, Nottingham. (2) no award.

Mr. Rowsell, commenting on the report of the Education Committee, drew attention to the fact that several of the scholarships had not been awarded owing to the failure of candidates to obtain the necessary number of marks.

Establishment Committee

The report of the Establishment Committee stated that the Dean's report recommended that the Ransom Fellowship be awarded to Frank Raymond Bradbury, and that the Rammell Studentship be awarded to George Brownlee.

The following recommendations for awards in the School were made:—

Course for the Chemist and Druggist Examination.—Pharmaceutical Chemistry, bronze medal, J. Garlick; certificate of honour, R. Field; certificate of honour (pract.), J. Garlick. Pharmacognosy, bronze medal, W. T. Wing; certificate of honour, P. C. Freeman; certificate of honour (pract.), W. T. Wing. Pharmaceutics, bronze medal, J. Garlick; certificate of honour, R. Field; certificate of honour (pract.), J. Garlick.

Martindale Medal.—J. Garlick.

Course for the B.Pharm. and Ph.C. Examinations.—Pharmaceutical Chemistry, silver medal, R. E. Stuckey; certificate of honour, J. W. Fairbairn; certificate of honour (pract.), E. A. Wright. Pharmacognosy, silver medal, J. L. Forsdike; certificate of honour, R. E. Stuckey; certificate of honour (pract.), R. E. Stuckey. Pharmaceutics, silver medal, E. K. Samways; certificate of honour, J. W. Fairbairn; certificate of honour (pract.), A. J. Lewis.

Hewlett Exhibition.—R. Field.

Benevolent Fund

The report of the Benevolent Fund Committee showed that they had considered eighteen applications, and had made, or were now recommending, grants ranging from £5 to £350. Special contributions included one of £12 6s. from the Leeds Branch of the Society, making a total of £51 8s. within recent times.

War Auxiliary Benevolent Fund

The Committee of this fund reported having received five applications and made, or now recommended, grants ranging from £14 to £39.

Finance Committee

The financial statement showed that receipts since the last meeting, including a balance of £2 3s. 3d., amounted to £10,674 18s. 4d., comprising the following items: Retention fees, £240 19s. 6d.; premises fees, £207 18s.; subscriptions, £4 4s.; College—School of pharmacy, £54 6s. 4d.; Pharmacological Laboratories, £364 13s. 6d.; grant from the Royal Society, £30; grant from the University of London, £162 10s.; registration fees, £66 3s.; restoration fees, £65 2s.; examination fees, £101 17s.; penalties and expenses, £31 7s.; interest, £66 16s. 5d.; rentals, £724 13s. 11d.; "Pharmaceutical Journal," £2,115 17s. 6d.; Pharmaceutical Press, £1,312 5s. 1d.; F.S.S.U. contributions, £22 6s. 10d.; transferred from deposit account, £5,100; sundries, £1 15s. Payments ordered at the last meeting amounted to £10,650 8s. 4d., leaving a balance of £24 10s. The balances on the other accounts were: Benevolent Fund (current account), £23 14s. 5d.; Benevolent Fund (donation account), £35 0s. 8d.; War Auxiliary Benevolent Fund (adverse balance), £188 7s. 6d.; Hills Orphan Fund, £35 7s. 9d.; Orphan Fund, £27 15s. 10d. Accounts amounting to £16,615 8s. 8d. were passed for payment, and the action of the secretary in making payments amounting to £1,756 7s. 6½d. was approved.

The Vice-President suggested that the Council might investigate the possibility of the Society's more brilliant students participating in the research promoted by the Rockefeller Institute.

Law Committee

The report of this Committee, presented by Mr. Beardsley, showed that in England and Wales 1,300 chemists' shops and 399 drug stores had been visited by the Society's inspectors and agents during the month, and that since the last report forty-seven chemists' shops in Scotland had been visited.

London Examination Results

Pharmaceutical Chemist Qualifying Examination

The following are the results in the Pharmaceutical Chemist Qualifying examination held in London during July:—Entered 68; passed 30; failed 21; absent 5; referred in pharmacy 4, in chemistry 2, in botany 5, in forensic pharmacy 1. Entered under Regulation 25 (*c*) 15; passed 10; failed 5.

The following have satisfied the examiners in this examination:—Bentley, A. H.; Brean, F. J.; Broadley, H.; Brown, Irene P.; Bryant, B. C.; Cumberland, F. C.; Elliott, A. L.; Fairbairn, J. W.; Fitchett, E. J.; Forder, B. A.; Griffin, F. W.; Hargreaves, F.; Jordan, J. C.; Latimer, D. E.; Lewis, A. J.; Mancer, Doris M.; Melville, C.; Meyler, Mary J.; Mumford, F. R.; Partridge, M. W.; Pratt, Helena M.; Rogers, A.; Samways, E. K.; Smith, J. C.; Smith, Margaret; Smithers, G. W. G.; Stuckey, R. E.; Summerfield, W. L.; Waller, L. J.; Wright, E. A.

Edinburgh Examination Results

The following are the results of the examinations held in Edinburgh during July:—

—	No.	Preliminary Scientific Examination				Chemist and Druggist Qualifying Examination			
		Absent	Failed	Referred	Passed	Absent	Failed	Referred	Passed
Entered for Prelim. Sc. exam. ...	399	3	199	71	126	—	—	—	—
Referred subject in Prelim.Sc. exam.	38	—	—	9	29	—	—	—	—
Entered for C. and D. exam. ...	238	—	—	—	—	3	47	52	136
Referred subject in C. and D. exam.	13	—	—	—	—	—	—	1	12
	688	3	199	80	155	3	47	53	148

Candidates have been referred as follows:—Botany 23; chemistry 34; physics 23; pharmacognosy 16; pharmaceutics 16; physiology 7; pharmaceutical chemistry 13; forensic pharmacy 1.

Candidates have failed as follows:—Botany 176; chemistry 188; physics 180; pharmacognosy 39; pharmaceutics 33; physiology 25; pharmaceutical chemistry 39; forensic pharmacy 10.

Chemist and Druggist Qualifying Examination

The following have satisfied the examiners in this examination:—

Adam, B., Torphins
Adam, G., Glasgow
Allardice, Mary A. N., Dundee
Anderson, D. A. M., Perth
Anderson, J. S., Shildon
Anderson, J. D. C., Ballater
Armstrong, R., Gateshead
Barraclough, S., Geldersome, Leeds
Bell, J. D., Leeds
Bellamy, Harold, Bradford
Bennett, Sydney, Oldham
Blowers, Kathleen E., Edinburgh
Booth, Allan, Harrogate
Broadley, Wilfred, Bradford
Brown, A. F., Newcastle-on-Tyne
Brown, J. S., Aberdeen
Brown, R. W., Newcastle-on-Tyne
Brown, W., Carstairs Junction
Bruce, S., Sunderland
Brunet, C. W., Aberdeen
Burrows, R., Sunderland
Byrom, Edith, Lytham
Cairns, J. S., Helensburgh
Carr, Sidney, Leeds
Clarke, J. S., Manchester
Clements, W. R., Sunderland
Cockburn, A., Port Glasgow
Cooper, A. G. E., Gorebridge
Cooper, William, Greenock
Crammond, Peter, Arbroath
Critchley, Frances P., Liverpool
Dalgetty, John, Brechin
Dallas, A., Edinburgh
Davidson, D. M., Kilmarnock
Dean, C. B., Leeds
Dickson, T. McE., Glasgow
Dickson, W., Burnbank
Dinwoodie, A. M., Edinburgh
Dixon, J., Seaham Harbour
Easton, Josephine B., Helensburgh

Elliott, J. M., Bolton
Elliott, R. T., Bradford
Exley, G. H., Heckmondwike
Fall, Edgar, Edinburgh
Farrar, J. L., Brighouse
Fine, H. D., Leeds
Foster, John, Leeds
Fowles, A. J., Liverpool
Fraser, G. R., Edinburgh
Gear, J. M., Edinburgh
Given, Jack, Edinburgh
Glaholm, Roma, East Boldon
Graham, G. McN., Glasgow
Granger, D. R., Edinburgh
Grayson, R. M. W., Liverpool
Green, Alfred, Leeds
Groundwater, W. A., Selby
Hall, William, Edinburgh
Hannay, John, Edinburgh
Harrison, G. H., Edinburgh
Hay, R. W., Edinburgh
Henderson, G. A., Monkseaton
Henderson, J., Ovingham
Hewitt, E. J. P., Ashton-on-Mersey
Hewitt, Thomas, Edinburgh
Hopper, T. H., Sunderland
Hornby, T. W., Leeds
Hunter, W. D., Edinburgh
Jeffrey, R. E., Glasgow
Jewson, Lilian M., Monkseaton
Johnson, H. S., Sunderland
Johnson, R. L., Barnsley
Jones, F. L., Houghton-le-Spring
Jones, R. G., Liverpool
Katz, Zebulun, Leeds
Kemp, A., Musselburgh
Kerrigan, H., Glasgow
Kerry, A. R., Liverpool
Kitchen, E. W., Edinburgh
Lamont, N. P. J., Kilmalcolm
Laurie, W. M., Galashiels
Lavin, G. D. McD., Manchester
Ledden, A. R., Liverpool
Ledgerwood, H., Edinburgh
Lloyd, T. J., Liverpool
MacDonald, A. L., Aberdeen
McEwan, Sheila, Edinburgh
McEwan, T., Kirkcaldy
McKechnie, T. McL., Glasgow
Mackie, Adam, Findochty
Macmaster, A. W., Glasgow
Macmaster, T. W., Glasgow
Marr, W. J., Oldmeldrum
Marsh, J. T., Newcastle-on-Tyne
Martin, J. W., Edinburgh
Marwood, H. A., Barnsley
Mellis, W. J., Aberdeen
Mes, A. M., Manchester
Michelson, L., S. Shields
Millar, J. B., Rutherglen
Mitchell, A. W., Rosehearty
Mitchell, Eric, Leeds
Morley, R., Leamington Spa
Munro, J. S., Aberdeen
Murray, Robert, Cults
Noblet, Charles, Preston
Ollier, George, Darwen
Orrell, C., Ashton-on-Ribble
Owen, A., Birkenhead
Parker, J. A., Blackburn
Paul, Robert, Edinburgh
Payne, Gilbert, Edinburgh
Perry, Sheila K., Eccles
Peters, W. E., Liverpool
Potash, Lewis, Manchester
Potter, J. J., Dundee
Pritchard, A. H., Liverpool
Pryde, G. B., Gorebridge
Reith, N. M., Edinburgh
Ritch, E. S., Leith
Robertson, G. R., Edinburgh
Russell, J. T., Perth
Saint, L., Newcastle-on-Tyne
Saperia, Maurice, Leeds
Sigsworth, Frances, Easington Colliery
Sinclair, A., Wishaw
Small, D. M., Kirriemuir
Smith, J., Kilbarchan
Smith, N., Bedlington
Somerville, H. T., Bolton
Stephen, A. J., Aberdeen
Teesdale, James, Edinburgh
Thompson, A. R., Hull
Thompson, N. H., Leeds
Thomson, A. D., Aberdeen
Tidswell, William, Bradford
Turnbull, T. H., Galashiels
Wade, B. B., Bradford
Walker, J. A. M., Ellon
Wark, John, Glasgow
Watt, Thomas, Glasgow
Westwood, J. R., Arbroath
Whiteford, A., Greenock
Wilkinson, J., Kelbrook
Wilkinson, Winifred, Keighley
Willerton, H. J., Bishop Auckland
Wilson, Esther, Middlesbrough
Wilson, H. S., Bradford

PHARMACEUTICAL CHEMIST QUALIFYING EXAMINATION

Entered 12; passed 8; failed 3; absent 1.

The following have satisfied the examiners in this examination:—Blair, T. B.; Bowers, J. B.; Cresswell, E. C.; Flitcroft, J.; Gemmell, D. H. O.; Nellies, J.; Stalker, J. B.; Wike, G. M.

OFFICE MANAGEMENT.—The Office Management Association, 499-501 Oxford Street, London, W.1, which celebrates its coming of age this year, has issued a brochure on its work.

ALKALI INSPECTOR'S REPORT.—The latest annual report to the Minister of Health by the Chief Alkali Inspector, covering the year 1935, may be obtained (price 9d.) from H.M. Stationery Office or through any bookseller. Among other matters, the report states that the production of sulphuric acid in England and Wales in 1935 amounted to 784,000 tons, a substantial increase over the previous year. The total acidity of gaseous escapes from these works averaged 1.61 gr. of sulphuric anhydride per cubic foot, which compares favourably with the 4.0 gr. permitted. Progress in the destruction of weeds by spraying with sulphuric acid has been maintained.

Recent Wills

MR. FREDERICK JAMES SANDBERG, Ballards Lane, London, N., chemist and druggist, who died on May 25, left estate of gross value £14,995, with net personalty £11,431.

MR. SIDNEY FRANCIS BARKER, 206 Chesterton Road, Cambridge, chemist and druggist, who died on May 31 last, left estate gross value £6,025, with net personalty £4,636.

MR. CHARLES BROWN, 1 Portland Villas, Victoria Road, Barnstaple, Devon, chemist, who died on March 31 last, left estate gross value £11,246, with net personalty £5,205.

MR. CHARLES SALMON, 55 Drayton Park, Highbury, N., artificial limb manufacturer, died on February 23 last, leaving estate gross value £28,816, with net personalty £3,988.

MR. EDWARD GEORGE BAGLEY, Oakville, Alltmawr Road, Cyncoed, Cardiff, manufacturing chemist, who died on March 5 last, left estate gross value £2,366, with net personalty *nil*.

MR. CHARLES PEARSON SPEDDING, 92 Savile Road, Savile Town, Dewsbury, chemist and druggist, who died on March 6 last, aged fifty-seven, left £1,839, with net personalty £1,702.

MR. EDWIN WRIGHT, 28 Lake Street, Leighton Buzzard, Beds., retired chemist, who died on April 14 last, aged eighty-four, left estate gross value £2,879, with net personalty £2,831.

MR. ARCHIBALD HENRY GEORGE COGGIN, 61 High Street, Ware, Herts, chemist and druggist, who died on February 26 last, left estate gross value £4,215, with net personalty £3,888.

MR. JOHN DURNFORD, 99 Station Road, Ashford, Kent, chemist and druggist, who died on May 21 last, aged eighty-five, left estate gross value £1,429, with net personalty £1,402.

MR. RICHARD LACEY, 38 Swinburne Road, Abingdon, Berks, chemist and druggist, who died on November 6 last, aged ninety-two. left estate gross value £2,064, with net personalty £2,047.

MR. ROBERT HORNER, 20 St. Paul's Road, Preston, Paignton, pharmaceutical chemist, who died on February 10 last, aged sixty-four, left estate gross value £7,335, with net personalty £6,495.

MR. WILLIAM BAYNHAM CUTHBERTSON, Dunalastair, of Wheatfield Road, Ayr, fertiliser manufacturer, who died on March 29 last, left personal estate in Great Britain valued at £85,857.

MR. TOM LAWTON, Quarry House, West Town, Dewsbury, Yorks, chemist and druggist, who died on September 10 last, aged seventy-two, left property gross value £5,702, with net personalty £2,318.

MISS EVELYN MARY JEPSON, 10 Highdown Avenue, Worthing, Sussex, chemist and druggist, who died on January 13 last, left estate of the gross value £2,508, with net personalty £2,478.

MR. JOHN HARRY STANLEY ALLEN, 137 Queen's Crescent, Kentish Town, London, N.W., chemist and druggist, of Denzil Thomson and Co., who died on March 20 last, aged sixty-seven, left estate gross value £15,663, with net personalty £12,417.

MR. WALTER HARRISON SCOTT, Market Hill, Saffron Walden chemist and druggist, who died on July 11, left estate gross value £8,961, with net personalty £7,582. The testator left, among other bequests, £10 to his assistant, E. G. Wright, if in his employ at his death.

MR. DONALD FORREST MCKINNELL, Wood Hill, Northampton, chemist and druggist, who died on May 12, left property of gross value £23,079, with net personalty £14,255. The testator left, among other bequests, £250 each to John Martin and F. C. Crowhurst if respectively in the employ of Donald McKinnell, Ltd., at his death.

MR. WILLIAM JUDD, 8 Stanthorpe Road, Streatham, S.W., chemist and druggist, who died on May 28 last, left property of the gross value of £16,055, with net personalty £15,996. The testator left, *inter alia*, £200 to the Pharmaceutical Society of Great Britain, the residue of the property to his wife for life, and then one-third to the Pharmaceutical Society of Great Britain for the Benevolent Fund.

Misuse of Common Remedies

AN article by Drs. J. W. Linnell and Clifford Hoyle entitled "Further Examples of the Misuse of Common Remedies" appears in the August issue of "The Practitioner." The following paragraphs summarise the authors' views on most of the substances selected by them.

Purgatives

Colossal quantities are used daily, not only by an ignorant laity in self-treatment, but also by the profession in private and hospital practice. There are many causes of habitual constipation, but it cannot be laid down too strongly that the majority of cases can, and should, be cured without recourse to purgatives. There is an ingrained belief in doctors and laity alike that the bowels should be relieved regularly once in twenty-four hours. Yet, as Gee pointed out over thirty years ago, this is not a law of Nature, and some people feel in better health when they act only once in two or three days. . . .

In one fairly common type of constipation of nervous origin, namely, that due to a spastic colon, purgatives are contra-indicated since they tend to increase the spasm. In another type of constipation which is associated with atony of the colon, although purgatives may be necessary for a time, and even indefinitely, much can be done by a suitable diet, regular exercises specially directed to the strengthening of the abdominal muscles, massage, and the administration as a lubricant of liquid paraffin. This and the salines excepted, all purgatives are irritants, and we believe that their habitual use leads to much more harm than constipation. As a matter of fact, there is little or no evidence to support the widely-held theory that auto-intoxication results from the latter. Fæces, after all, are meant to dry in the distal colon, and toxic absorption can occur much more readily from fluid fæces than from dry scybala. It seems likely, therefore, that those who set out to prevent it by the use of purgatives are actually thereby encouraging it. Dehydration by purgatives as a pre-operative procedure is to be condemned on many grounds. . . . Attention must again be drawn to the appalling danger which arises from the routine administration of a purgative to any patient who complains of abdominal pain, and especially in the case of a child. A mild appendicitis may thereby often be converted into a fulminant one.

Iodine in Thyrotoxicosis

Iodine does not cure toxic goitre. Though for some unknown reason it tends to abate the high basal metabolic rate, the tachycardia, and other symptoms of thyrotoxicosis, these effects are only temporary. Given before and immediately after operation, it is of the greatest value, and its use should be restricted to these periods. The widespread practice of giving it continuously for months or even years in the belief that it cures is deplorable, for thereby operation tends to be postponed until either auricular fibrillation, congestive heart failure, extreme emaciation, or a psychosis supervene. . . .

Quinine

In medicine, as opposed to obstetrics, quinine has a precise therapeutic value in malaria, as a bitter, and in the treatment of varicose veins. Otherwise its chief pharmacological effects are those of a general protoplasmic poison. It is still used a good deal as an antipyretic, but if it were more widely appreciated that the lowering of temperature which it produces is due to its poisoning effects on the general metabolism, and that, in addition, it checks the activity of leucocytes, its use as such would be discontinued, and especially if fever be regarded as a beneficent reaction to infection. Quinidine, which has a much more powerful effect than quinine in arresting auricular fibrillation, has the same toxic action: indeed, its action upon auricular muscle is essentially a toxic one. Though beneficial in properly chosen patients, its use in auricular fibrillation needs the greatest care and judgment; even so, its good effects may be only temporary and alarming toxic symptoms may sometimes be witnessed.

Vaccines

A belief in vaccine therapy has, in our opinion, been one of the greatest delusions of a generation. There is a rapidly increasing body of opinion that vaccines cannot confer increased resistance in established disease—and this after their almost universal trial over a period of some twenty-five years. In pyelitis due to infection by the *Bacillus coli*, for instance, in which they were once believed to achieve dramatic success, time has proved them to be valueless. There are few now who regard them as anything but a danger in the treatment of acute and generalised infections, even if there are still a number who believe that they have a certain value in chronic and localised ones. This, however, is now becoming more and more doubtful. . . . A point, too, that is often forgotten is that even in chronic infections they can do actual harm. Fishberg, for example, not only derided the idea that tuberculin had any value in the treatment of chronic pulmonary tuberculosis, but once more laid stress on the well-known fact that it might activate dormant foci of disease. The value of certain vaccines, e.g., "T.A.B.," when used prophylactically, is not, of course, denied. . . .

Arsenic

In the inorganic form arsenic has long enjoyed a reputation in the treatment of anæmias. In so far as pernicious anæmia was concerned, there was, perhaps, some reason for this, but since the introduction of liver its use in this disease is now entirely superseded. In the treatment of other forms of anæmia arsenic has even less claims for consideration. Its action in normal subjects is not to increase the production of red blood cells and hæmoglobin, but to cause proliferation of the leucoblastic part of the bone marrow and thus sometimes leucocytosis. There is nothing to point to its having a different action in these anæmias.

Calcium

Calcium salts have a limited field of usefulness. Save in a few conditions such as tetany following thyroidectomy or occurring in idiopathic steatorrhœa, in which a real calcium deficiency prevails, there are no scientific grounds for its administration. Given by the mouth, enormous doses, e.g., calcium lactate, 5 grams, t.d.s., on an empty stomach, are needed to secure an efficient absorption from the gut. The doses usually given are quite useless. By intramuscular or intravenous injection only comparatively small doses can be given; still calcium introduced by these routes, e.g., an intravenous injection of 20 c.c. of a 10 per cent. solution of calcium chloride given slowly, has sufficed to save life in tetany. Calcium has no effect on the course of active pulmonary tuberculosis, will not control hæmoptysis or other forms of hæmorrhage except perhaps post-operative hæmorrhage in jaundiced patients, and rarely, if ever, alleviates chilblains and varicose ulcers.

New Books

Dobbin, L., and Mackenzie, J. E.—*Salts and their Reactions.* Sixth edition. 5½ in. by 8½ in. Pp. 246. 6s. E. & S. Livingstone, 16-17 Teviot Place, Edinburgh. [Admirably planned for the practical instruction of students regarding the properties of metallic and acidic radicles, simple gravimetric determinations, volumetric analysis, etc. An appendix describes experiments with common organic substances. Intended for first examination students, including the Preliminary Scientific examination of the Pharmaceutical Society.]

Pharmacopœia of the Prince of Wales's Hospital, Plymouth. 6 in. by 2½ in. Pp. 62. 2s. For private circulation. [Compiled by Mr. H. H. Cannon, M.P.S., for the use of the three voluntary general hospitals in Plymouth, now amalgamated. In addition to the formulary the volume contains a posological table, details of procedure in cystography, pyelography and other types of examination, tables of weights and measures, and other useful information. The regulations for the prescribing, supply and storage of poisons are stricter in some respects than those of the official Poisons Rules.]

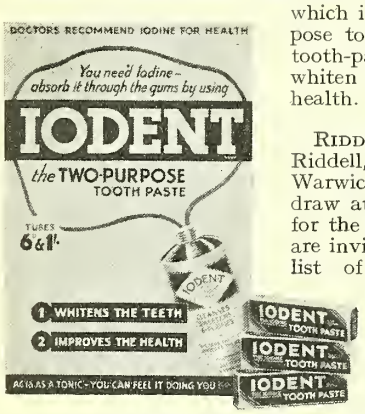
"C. & D." Retail Price List

THE index figure of cost of drugs during July shows a slight advance, being 147.3, against 147.0 in June and 145.0 in July of 1935. The surgical dressings index remained at the same figure as in June, it being 136.6, as against 136.2 in July of 1935. The changes in selling prices which should be noted in the quarterly list are as follows:—

Cost		Drugs and Chemicals	Selling Price			
d.	per		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
18	lb.	Aloe Capensis	2 3	0 8	0 3	—
24	lb.	Aloe Capensis pulvis	3 0	0 11	0 4	—
60	lb.	Buchu	—	2 2	0 8	0 2
144	oz.	Calcii guaiacol-sulphonas ..	—	—	—	3 0
144	lb.	Ext. gossypii rad. cort. liquidum	—	5 0	1 5	0 3
120	lb.	Ext. viburni liquidum	—	4 4	1 2	0 2
30	lb.	Lin. ammoniæ	—	1 2	0 4	—
27	lb.	Magnes. hydroxidum	—	1 0	0 4	0 1
60	lb.	Oleum abietis	—	2 2	0 7	0 1
18	oz.	Ol. chenopodii	—	—	2 8	0 5

Trade Notes

IODENT.—Elsewhere in this issue reference is made to Iodent, which is described as the two purpose tooth-paste. It is an iodine tooth-paste, which is stated to whiten the teeth and improve the health. It is issued in two sizes.



RIDDELL INHALERS. — Francis Riddell, Ltd., Axtell House, Warwick Street, London, W.1, draw attention to Riddell inhalers for the relief of asthma. Inquiries are invited for the illustrated price list of inhalers and inhalants. Details are given in our advertisement pages.

CHINESE MENTHOL AND PEPPERMINT OIL.—It is of interest to note that Chinese menthol and peppermint oil are now commercial articles obtainable in London. Elsewhere in this issue, Chinese menthol is advertised by Wilson & Mansfield, Ltd., 15 Philpot Lane, London, E.C.3, and Chinese menthol and peppermint oil are advertised by C. F. Gerhardt, Ltd., 5 Fenchurch Street, London, E.C.3.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

S/58. Barrett's Spa salts
L/17. Clanachloride (for cleaning cloths)
D/38. Hala
E/38. Holdtite denture fix
W/38. Lozol hot-water bottles
E/38. Lubert Freres scurf lotion
M/2. Nasogen remedy for colds, hay fever (agents)
Y/2. Pixie eyebrow pencil
D/38. Purin catheters
S/58. Slimmerine
M/58. Stride bunion shield
A/58. Taylor's bath oils

INDUSTRIAL RESEARCH LABORATORIES.—Under the auspices of the Association of Scientific Workers, a list entitled "Industrial Research Laboratories" has been compiled (George Allen & Unwin, Ltd., 3s. 6d.). The name of each laboratory or proprietor is followed by information concisely arranged under some or all of the following sub-headings:—Field of work, character of research, approximate annual expenditure, staff, approximate floor space, recent publications.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1936, p. 322.

(From "The Trade Marks Journal," July 15, 1936.)

Head of Spartan with "4711 SPARTA" ("Sparta" disclaimed); for toilet preparations, excluding soap (48). By P. P. Mülhens, Glockengasse 26, Köln-am-Rhein, Germany. 566,373. (Associated.)

"ARTONA"; for photographic papers (39). By Photo-Produits Gevaert S.A., 23 Septe Straat, Vieux Dieux, Antwerp. 568,506.

"POWDERFLIRT"; for rubber powderpuffs (48). By J. G. Franklin & Sons, Ltd., 15 Colvestone Crescent, London, E.8. 566,909.

"FIANCEE" and "VIEGAY"; for all goods (48). By Bourjois, Ltd., Queen's Way, Croydon. 567,997/998.

"GLAMOIL"; for hair colouring preparations (48). By Oloxo, Ltd., 11 Clarges Street, London, W.1. 568,472.

(From "The Trade Marks Journal," July 22, 1936.)

"TRESLYM"; for photographic chemicals, etc. (2). By T. Ryan, Somerville & Co., Ltd., Hindlow Works, Hindlow, Buxton. 569,496.

"NEOZONE"; for agricultural chemicals, etc. (2). By A. Lawrence & Co., Ltd., 561 Little Bourke Street, Melbourne, Australia. 566,663.

"HORTOMONE"; for agricultural and horticultural chemicals (2). By British Dyestuffs Corporation, Ltd., Imperial Chemical House, Millbank, London, S.W.1. 568,661. (Associated.)

"UPEPKO"; for manures (2). By The Golden Mushroom Co., Ltd., 17 New Cavendish Street, London, W.1. 569,447.

"CABLE"; for headache preparations, laxatives, etc. (3). By I. Furst, 60 Blackstock Road, London, N.4. 568,512.

"SCILLORAL"; for medicinal chemicals (3). By Asta A.-G., 83 Bielefelderstrasse, Brackwede, Germany. 568,619.

"ARTHREX"; for medicated lotions (3). By H. Gillett, 99 Mersey Road, Blundellsands, Liverpool, 23. 568,666.

"ANTIPECT"; for preparations for treatment of coughs and bronchial catarrh (3). By E. Tell, Windscheidstrasse 18, Berlin-Charlottenburg 5, Germany. 568,710.

"SANICONES"; for medicated pessaries (3). By H. Fingerhut, 43 Abingdon Street, Blackpool. 569,216.

"MAMOR"; for all goods (11). By Mamor-Laboratorium, 46 Bismarckstrasse, Berlin-Wannsee, Germany. 569,272.

"PYROPHAN"; for surgical instruments, etc. (11). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 569,460.

"PRESTONIC"; for mineral waters (44). By The Apollinaris Co., Ltd., 4 Stratford Place, London, W.1. 568,296. (Associated.)

Cameo with words "Poudre Manon Lescaut"; for toilet powders (48). "MANON LESCAUT"; for all goods (48). By Bourjois, Ltd., Queen's Way, Croydon. 567,992/991. (Associated.)

"BRYLCODENT"; for teeth preparations (48). By The County Chemical Co., Ltd., North Circular Road, Park Royal, London, N.W.10. 568,414. (Associated.)

"HUSH"; for all goods (48). By Hush Co., 116 Market Street, Philadelphia, U.S.A. 568,989.

"BAYSTAR"; for hair preparations (48). By Topax, Ltd., 35 Otley Road, Shipley, Yorkshire. 569,198.

"DENTROS"; for perfumery, etc. (48). By Boilerine, Ltd., 897 Old Kent Road, London, S.E.15. 569,368.

(From "The Trade Marks Journal," July 29, 1936.)

"AGFA" in design; for all goods (1) and (8). By I.G. Farbenindustrie A.-G., Grüneburgplatz, Frankfort-on-Main, Germany. 567,604/605. (Associated.)

Garden design in circle with name "CHESCO"; for chemical fertilisers (2). By H. Teanby, Ltd., 38 Crawley Road, Wood Green, London, N.22. 566,990.

"MICYLAX"; for liquid for aiding fermentation of materials for mushroom beds (2). By Early Produce, Ltd., 52 Hollyfield Road, Sutton Coldfield, Warwickshire. 568,696.

"ARISTOSAN" and "ARISTOTROP"; for all goods (2). By Aristopharm Fabrikations A.-G., Güterstrasse 86, Basle, Switzerland. 568,719/720. (Associated.)

"RIDDOSAN"; for bronchial asthma preparations (3). By F. O. Rudloph-Riddell, Southampton Row, London, W.C.1. 566,251.

"SANGOSTOP"; for all goods (3). By N. V. Sangostop, 37 Looiersgracht, Amsterdam. 568,382.

Births

Notices for insertion in this column must be properly authenticated.

MOYES.—At 26 Welbeck Road, Doncaster, on July 20, the wife of J. Moyes, chemist and druggist, of a daughter.

Marriages

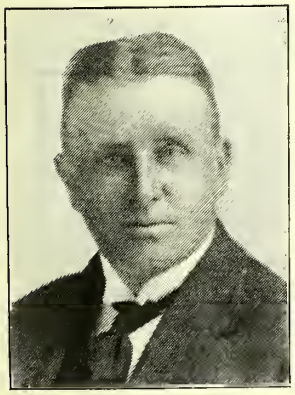
LADD—MARMERY.—At St. Alban's Church, Westbury Park, Bristol, on August 3, William Emery Ladd, M.P.S., (Ladd Brothers, chemists, Cardiff and Bristol), to Zelie Margaret Marmery, M.P.S., daughter of Captain Marmery, Newhaven.

ORCHARD—SLATTER.—At St. Thomas à Becket Church, Warblington, Hants, on July 29, by the Rector, assisted by the Rev. C. Brinkworth (cousin of the bride), Ronald Orchard, LL.B., solicitor, Knebworth, to Christine, only daughter of Mr. W. T. Slatter, chemist and druggist, Emsworth.

THRELFALL—BARTON.—At Wollaton Church, Notts, on July 27, Edward Threlfall, chemist and druggist, Lancaster, to Dorothy May Barton.

Deaths

BOYACK.—In a Dundee nursing home, recently, Mr. Walter Smart Boyack, M.V.O., M.P.S., managing director of Squire & Sons, Ltd., Chemists to the King, 413 Oxford Street, London, W.1, aged fifty-eight. Mr. Boyack, who had been in failing health for some time past, had been residing with his brother in Monifieth. He served his apprenticeship with James Hardie & Son, Union Street, Dundee, a firm responsible for the training of several distinguished pharmacists, including Mr. Peter MacEwan, a former editor of THE CHEMIST AND DRUGGIST. In 1901 Mr. Boyack received an appointment with Messrs. Squire & Sons. He was closely associated with the late Sir Peter Wyatt Squire in the preparation of "Squire's Companion to the British Pharmacopœia," the corresponding "Pocket Companion," and "Squire's Pharmacopœias of the London Hospitals." When the business was converted into a limited company in 1913 Mr. Boyack was appointed a director, and on the death of Sir Peter Wyatt Squire in 1919 he became managing director. In addition to manufacturing and retail sides of the business, Messrs. Squire & Sons have been chemists on the establishment of the reigning sovereign since the accession of Queen Victoria in 1837. During an illness of the late King George V, Mr. Boyack was in constant attendance for about two months during the most critical period, and in recognition of his valuable services he was appointed a member of the Royal Victorian Order in 1929.



MR. W. S. BOYACK

EVANS.—Recently, Mr. David Llewelyn Evans, chemist and druggist, 62 Charlwood Street, London, S.W.1, aged sixty-seven.

HUGHES.—Recently, Mr. Arthur Benjamin Hughes, chemist and druggist, Bickley, Kent. Mr. Hughes qualified in 1881.

JEACOCK.—At Hardley Hall, Norfolk, on July 30, Mr. Frederick Dawson Jeacock, chemist and druggist, aged seventy-seven. Mr. Jeacock carried on business for a long period in London Road South, Lowestoft, retiring four years ago. He was the first president of the Lowestoft and District Pharmacists' Association.

KEOGH.—In London, on July 30, Lieutenant-General Sir Alfred Keogh, G.C.V.O., G.C.B., M.D., Director-General of Army Medical Services, 1904-10 and 1914-18, aged seventy-eight.

LEE.—At Newport, Shropshire, on July 28, following an operation, Mr. Wilson Lee, chemist and druggist, 101 High Street, aged seventy-three. Mr. Lee, who was son of the late Mr. Thomas Lee, chemist and druggist, Wem, took over the pharmacy at Newport fourteen years ago.

NEILSON.—At 59 Dalblair Road, Ayr, on July 27, Mr. Richard Neilson, chemist and druggist, aged seventy-one. Mr. Neilson was in business in Ayr for thirteen or fourteen years after taking over the old-established business of Mr. William Burns. He retired a few years ago on account of failing health. Prior to going to Ayr, Mr. Neilson was in the employ of well-known Glasgow firms, including Murdoch Brothers and Frazer & Green, Ltd.

SAWDON.—At Leyton, London, E.10, on July 9, Mr. George Welburn Sawdon, chemist and druggist, a director of G. W Sawdon, Ltd., chemists, 795 Lea Bridge Road, E.17. Mr Sawdon qualified in 1904.

WELLCOME.—The funeral of the late Sir Henry Wellcome, LL.D., F.R.S., whose death was recorded in our issue of August 1 (p. 125), took place at Golders Green Crematorium, London, N.W., on July 29. Among the large congregation were:—Sir Henry Dale, M.D., Mr. F. W. Gamble, Dr. David Hooper, Dr. T. A. Henry, Mr. A. B. Howell (representing the Governor-General of the Sudan), Lieutenant-Colonel S. T. James (representing the Ministry of Health), Captain P. Johnston-Saint (representing the Royal Society of Medicine), Dr. H. A. D. Jowett, Sir Charles Marston, Dr. Stephen Miall (representing the Society of Chemical Industry), Dr. R. A. O'Brien, M. Roux (representing the French Ambassador), Mr. J. L. Starkey, Dr. C. M. Wenyon and General Sir Reginald Wingate.

WEST.—At Richmond, Surrey, on August 1, Mr. Frederick West, retired chemist and druggist, aged seventy-six. Mr. West retired in 1934 after carrying on business in George Street, Richmond, for a long period.

Personalities

MR. A. H. MILLNER, Muncaster Road, London, S.W. (of the representative staff of S. Maw, Son & Sons, Ltd.), asks us to convey his thanks to the many friends who have made inquiries during his recent illness.

AT a meeting of the Essex Pharmaceutical Committee on July 27, Mr. T. England tendered his resignation as chairman on account of his retirement from pharmacy. Mr. England is an original member of the committee and was the first vice-chairman. He has held the position of chairman continuously since 1919, and has served on all subcommittees and given ungrudgingly of his time to further Essex chemists' interests in National Health Insurance matters. Mr. Slater, Epping, was elected chairman, and Mr. Saunders, Braintree, vice-chairman.

Business Changes

MR. JOHN DOUGLAS HAWLEY, elder son of Mr. J. P. Hawley, chemist and druggist, Winchcombe, has acquired the Wedmore Drug Stores, Wedmore, Somerset.

MR. A. H. PRESTON, chemist and druggist, has sold his business at 32 Old Steine, Brighton, to Tilsons, Ltd., and has purchased a business at Fisherman's Walk, Bournemouth.

WILLIAM RANSOM & SON, LTD., manufacturing chemists, Hitchin, have appointed Mr. C. Edwards, B.Sc., F.I.C., Ph.C., a director of the company as from August 1. Mr. Edwards has been in charge of the manufacturing side of the business.

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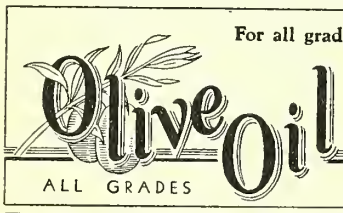

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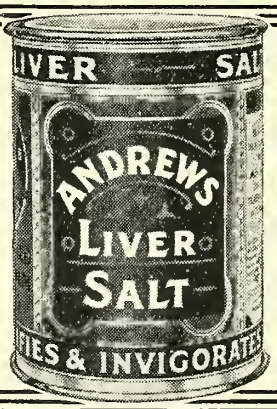

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THE
CHEMIST AND DRUGGIST
VOL. CXXV. August 8, 1936 NO. 2948

Nutrition and Disease

THE problem of nutrition is the subject of a report drawn up by the Technical Commission of the Health Committee, presented at the meeting held in November last year and amplified at the meeting held at Geneva under the auspices of the League of Nations in June of this year. Much publicity has been given to the problem of nutrition in the daily Press recently, and no doubt pharmacists have been interested to note that many diseases are caused by deficiency of vital factors in foods and also the fact that diet is of considerable importance in warding off the incidence of disease not only in childhood but also in adult life. The value of vitamin-containing products need no longer be stressed, for it is common knowledge that the food rations of an earlier period were sadly deficient in these health-giving food factors. As a result, the pendulum has swung in the direction of an adequate diet for all members of the community. Chemists are bound to agree that the nation should be adequately fed; and we have seen that the deficiency diseases, in which may be included rickets, pyorrhœa, teeth malformation and perhaps pernicious anæmia, to say nothing of glandular abnormalities, may in fact be due to inadequate or incomplete diet. But chemists may now ask themselves: "When is a food not a food?" and the answer may well be: "When it is a medicine." It is common knowledge that many food manufacturers decline to describe their food products as medicines, yet it is obvious that in certain cases medicines rich in vitamins may in fact be considered foods. Not so long ago, cod-liver oil was considered to be a medicine; it is doubtful whether any practitioner would now consider cod-liver oil any more a medicine than is butter, because of its rich content of the vitamins A and D.

It may well be that to-day medicine is on the threshold of a new era. Granted that the population has an adequate and sufficiently mixed diet, it may follow that there will be no disease calling for medicine at all. It is to be recalled, however, that infectious diseases are not subject to any control by food. Diphtheria, scarlet fever, pneumonia and other infections are due to bacterial invasions which cannot be controlled by any dietary, however scientifically prepared. Chemists will have to look to the future. It is useless to look back and see what the trade has lost in the supply of medicaments (or foods, so called) to ailing humanity. It should, of course, be emphasised that a healthy community is the *Ultima Thule* of all great nations; but as the chemist is trained in the direction of supplying medicine for the cure or relief of suffering mankind, he is bound to consider what the very near future holds in store for pharmacy. If he looks around, he will find that under National Health Insurance he has to supply medicine for the populace at a price which is not only beggarly but which is even subject to a discount if there is insufficient money in the drug fund to pay him.

Pharmacy has especial need in these days of a propaganda department to voice its claims for a recognised position in the nation's commerce. The craft has suffered in the past very largely from the fact that certain members of the Council have voiced the opinion that pharmacy is a profession and, as such, should not advertise itself. If, however, we turn to the medical profession, we find that medicine to-day is one of the closest "trade unions" in the world. It does not associate with any offshoots, not dentists, nor pharmacists, nor opticians. Medicine is the spoiled child of the Government, and as such can command its own terms and dictate its own requirements. If professional pharmacists gain their way and acquire dispensing from dispensing doctors, we can rest assured that when the time arrives for doctors to surrender this right, dispensing will be of little commercial value. It is to be hoped, therefore, that the new councillors in the Society and those who are likely to be elected next May—and we feel confident that there will be some new councillors—will pay especial attention to this phase in pharmacy. It is to be reiterated that while pharmacists are in complete agreement with the trend of modern medicine, they insist and will presently demand from their rulers some indication of their value in the scheme of commerce. We, all of us who are chemists, shall look forward with interest to the forthcoming winter session, so that we may learn what are the new councillors' views for the betterment of pharmacy.

A Lead to Local Authorities

THE recent action by the London County Council with regard to the duties of pharmacists employed in its institutions gives rise to reflection upon the second-class position to which pharmacy as a profession has allowed itself to be relegated. The London County Council has shown prescience by adopting the rule of employing only qualified pharmacists to dispense medicines in its hospitals. Now the Council has shown further practical recognition of the status and capacity of its pharmacists by putting them in a position of proper authority in their own houses—giving them undivided responsibility for requisitioning and controlling supplies of poisons in the L.C.C. institutions. Our law-givers should—and quite easily could—have done this universally: instead, they allowed pharmacists, under Rule 28, to be made responsible for "inspecting" stocks on the premises where they follow their calling, without being placed in absolute control. It has been left for the London County Council quietly to teach a lesson to the rulers of pharmacy. Is it too much to hope that the lesson will be taken to heart, and that what has been done in London will be pressed upon local authorities all over the kingdom? The patient submission with which the average pharmacist will allow himself to be used as a pack-horse without any voice in determining the burdens he is to carry is exemplified in a letter signed "Prior Claim" published in our issue of last week; and it really seems as though combination among pharmacists in their own interests was a thing of the past. Were it not so, we should not have seen the humiliating spectacle of pharmacists being treated not unlike hawkers and market-stall keepers, while medical men are allowed to go scot free of dispensary inspection, employing whom they like to do this responsible work. The London County Council's action offers an opportunity for a move by pharmacists elsewhere in regard to hospital supplies.

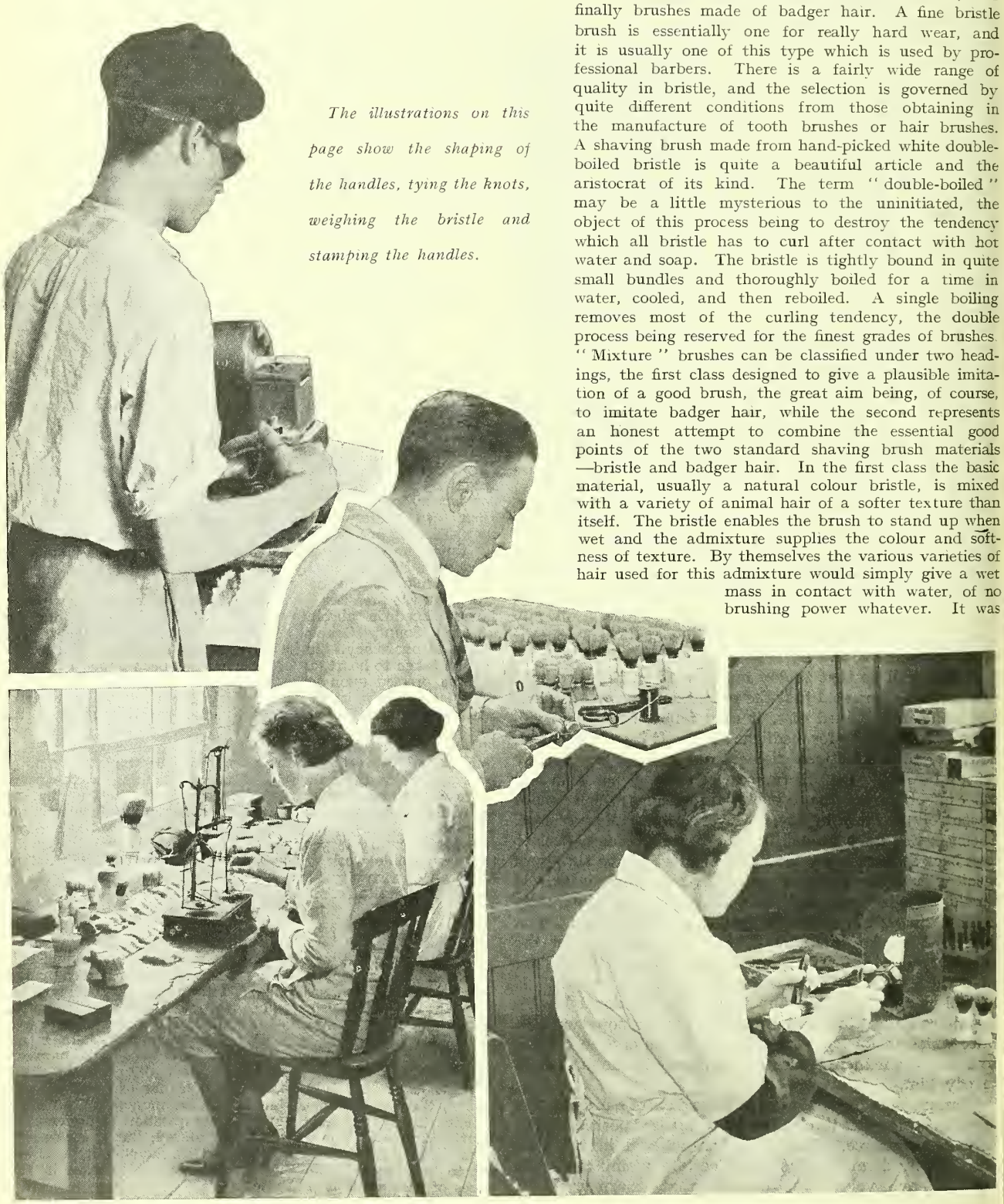
Mercury at Zero

LONDON stocks of mercury are now practically exhausted. This market has recently been supplied almost entirely by the Spanish section of the Spanish-Italian mercury monopoly. Stoppage of the Spanish supply must inevitably affect imports, yet so long as the Italian source continued to operate there was always an alternative channel. Unfortunately, there is an Italian as well as a Spanish "situation." Trade between Italy and this country has already been discussed in these columns (*C. & D.*, July 25, p. 110). So far as Spain is concerned, there is an official interest in the monopoly, but with all exports virtually at a standstill, no question of preferential treatment arises. The situation is confused, but it seems safe to predict that early renewals of Britain's mercury imports are not to be expected. In the meantime, some increase in the prices of mercurials is probable.

Story of the Shaving Brush

The illustrations on this page show the shaping of the handles, tying the knots, weighing the bristle and stamping the handles.

THESE necessities for men's toilet fall into three classes, brushes made of bristle, those made of a mixture of bristle and other hair, and finally brushes made of badger hair. A fine bristle brush is essentially one for really hard wear, and it is usually one of this type which is used by professional barbers. There is a fairly wide range of quality in bristle, and the selection is governed by quite different conditions from those obtaining in the manufacture of tooth brushes or hair brushes. A shaving brush made from hand-picked white double-boiled bristle is quite a beautiful article and the aristocrat of its kind. The term "double-boiled" may be a little mysterious to the uninitiated, the object of this process being to destroy the tendency which all bristle has to curl after contact with hot water and soap. The bristle is tightly bound in quite small bundles and thoroughly boiled for a time in water, cooled, and then reboiled. A single boiling removes most of the curling tendency, the double process being reserved for the finest grades of brushes. "Mixture" brushes can be classified under two headings, the first class designed to give a plausible imitation of a good brush, the great aim being, of course, to imitate badger hair, while the second represents an honest attempt to combine the essential good points of the two standard shaving brush materials —bristle and badger hair. In the first class the basic material, usually a natural colour bristle, is mixed with a variety of animal hair of a softer texture than itself. The bristle enables the brush to stand up when wet and the admixture supplies the colour and softness of texture. By themselves the various varieties of hair used for this admixture would simply give a wet mass in contact with water, of no brushing power whatever. It was



in regard to this class of brush, especially the imported foreign-made variety, that the danger from anthrax arose. Fortunately the stringent requirements of the Board of Trade, well seconded by most of the reputable British manufacturers, now ensure that all hair is adequately sterilised. The better class of mixture brushes—it might be said the honest class—are simply a mixture of pure bristle and badger hair. The proportion varies according to the price of the article, but standard brushes contain 25 per cent., 33 per cent. and 50 per cent. of badger hair. The last mentioned, when made from good materials, is a somewhat expensive brush, costing about two-thirds the price of a first-class fine badger brush, but in natural use it is the finest proposition extant and will always justify the highest recommendation that a seller can give to a customer.

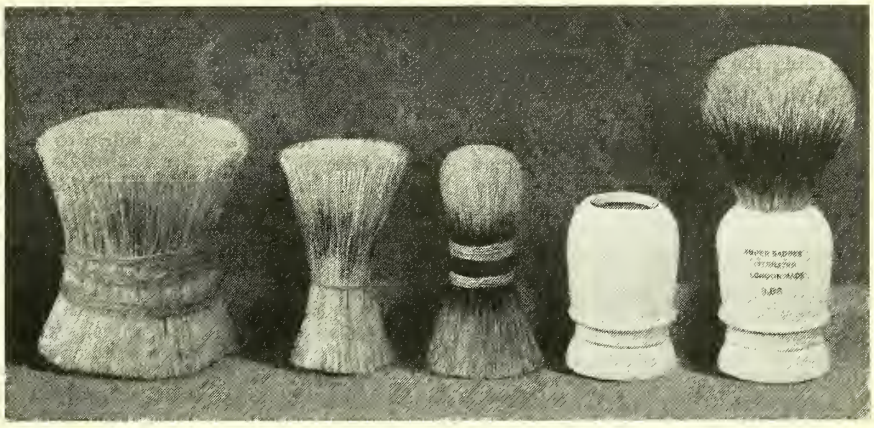
Badger Brushes

Pure badger-hair brushes are, of course, the cream of the trade. The hair of the badger is specially suited for shaving-brush making because it combines softness with a ponounced water-proof quality, this latter being due to an oily natural polish on each hair. Many kinds of hair have the softness, but no other commercial hair possesses the same quality of "standing up" to hot water and soap. Even in badger hair there is a wide variation in this property, hair from animals in cold climates being infinitely more valuable on account of the much greater development of this protective quality. For this reason Siberian badger is the most sought after. Badger hair is dressed entirely by hand and graded into qualities ranging from the almost black "flank" hair to the really exquisite "silver tip"—and a brush made from the finest silver tip hair is fit to rank more as a work of art than one of craftsmanship. The use of a pure badger brush is really a luxury—and a great comfort to the chin. It is to be feared, however, that the high price obtaining for such a brush sometimes gives rise to misconceptions in the mind of the purchaser, who occasionally reasons that having bought the most expensive article obtainable he is entitled to expect it to outwear many times the cheaper brushes available. This is not the case; he is virtually paying for the use of pure silk as against that of a rougher and cheaper material. The chemist can, however, assist his customer to get perfect and long service from a fine brush by giving two scraps of advice: (1) Do not scrub the chin with a badger brush—the object is to lather the face, not to remove the beard; (2) never leave soap in the brush. The explanation of this caution will be obvious to a chemist—the object of lathering is the removal of the natural skin grease of the beard to enable the edge of the razor to "bite." The same soap has equally the same action on the oily polish, which is the essential quality of the badger hair. Long contact destroys this polish, the hair is denatured, cracks and breaks away. Under a pocket lens this condition can be clearly seen as a succession of opaque nodules along the hair, at one or other of which it easily breaks away. A frequent request received by a brush maker is for such a brush to be "reset." This is obviously impracticable, as the hair is not coming away from the socket but is breaking off short.

How Shaving Brushes are Made

A few details of the manufacture of shaving brushes may be of interest here. In consequence of the really severe regulations imposed by the Board of Trade, raw material should now reach the manufacturer in a sterile condition. A good maker, however, does not entirely trust to this, but proceeds to sterilise the material for his own satisfaction. As anthrax spores are amongst the most resistant of organisms, and the inside of a tight bundle of bristle or hair is somewhat difficult to penetrate, this sterilisation calls for a special process, as excessive dry heat would destroy the hair. The material is placed on trays inside a stout metal chest and first of all a partial vacuum is created. Then super-heated formalin vapour at a high temperature and pressure is pumped into the chest. This is maintained for a definite period, and the result is complete sterilisation without any harmful effect on the structure of the hair. When the material is dry after sterilisation, amounts are weighed according to the size of brush or proportion of mixture it is intended to make. It is then thoroughly combed (and mixed) prior to being tied by means of very strong hemp. The centre part is pushed up to give the appropriate curvature of the finished article, the lower base part being trimmed absolutely flat and solid.

Here can occur one of the little "tricks of the trade." A manufacturer is often asked for brushes with a nice bushy head. Now it is obvious that no more hair can be put into a shaving brush than can be got into the hole or socket of the handle. Also, as it is the root or thickest part of the hair which is inserted into the handle, it is somewhat contrary to the nature of things to expect the head to be large and spreading. A quite fictitious bushiness can, however, be imparted at this stage by pushing up the centre of the knot to a decided cone. This gives the "bushy" effect demanded, but such a brush wears flat in a very short time and the hair in the centre of the knot is "hanging on by its eyebrows." The next stage is to cement the handle end of the brush knot by means of a pitch-like preparation. The bristle is dipped in the molten cement, and care is taken to ensure that every hair is coated and that the whole is cemented to a length according to the socket in the handle. The surplus cement is squeezed out and the bristles are bound together by means of a special non-corroding wire until set and ready for insertion in the handle. Shaving-brush handles may be made of bone, wood or material of the casein or phenolic resin type, the first two having now been to a large extent ousted by the synthetics. The last-mentioned are supplied in cylindrical rods, which are turned and cut into the required shapes and sizes on a lathe. The brush knot is secured in the handle with a special cement, an appropriate quantity of which is poured into the socket of the handle and the bristle inserted. When this has set, the handle is then stamped with the desired marking by means of a punch, the lettering on which is held in a carbon flame prior to use. The final stages are cleaning the handle, removing any surplus cement from the edge, and trimming.



STAGES IN THE MANUFACTURE OF A SHAVING BRUSH

The materials shown above are (left to right): Bundle of mixture; rough shaving brush knot; finished knot ready for setting; shaving brush handle; finished brush.

The photographs illustrating this article were taken at the premises of Brett, Buxton & Co., Ltd., 2 Kelvin Road, London, N.5.

KEEPING THEM TIDY.—"Extract from a Parish Magazine: 'In response to the appeal of the Vicar for helpers to weed the paths in the churchyard, Messrs. B—— and B—— worked for three evenings, Mr. H—— for two evenings, and Mr. J. W., B. W., and R. B. for one evening. After weeding the paths they were treated with weed-killer, and we hope that this will keep them tidy for some time.' No doubt it will, but there'll be a tidy fuss if the Public Prosecutor gets to hear of it."—"Peter Simple" in "The Morning Post."

Poisons Anomalies

By Scrutator

THE change over in poisons law during 1936 has created difficulties owing to certain anomalies which call for correction. These have arisen in part from the Home Office modifications to the draft rules and also from the responsibility of interpreting and enforcing the new statutory provisions being delegated to the registration authorities. Ambiguity in expression has resulted in conflict of opinion on points in poison law which require attention and reconciliation (maybe by rule) before the end of the period of grace regarding the labelling of poisons.

Labelling Liquid Poisons

The problems associated with poison legislation by reference and inference (to the Pharmacy and Poisons Act, 1933, as modified by rules) are illustrated by the labelling of liquid poisons supplied in bottles with a capacity of 120 fl. oz. or under. Rule 20 (1) (*a*) makes the position clear in regard to poisonous liquids other than medicines which must be labelled with the words "not to be taken." From Rule 20 (1) (*b*) the obvious inference is that all poisonous medicines for external application have to be labelled with the words "For external use only." An anomaly is to include a reference to "liquid antiseptic" among external medicines (since if this includes directions for use as a disinfectant it should also be labelled "Not to be taken"). The issue is made dubious by the dictum of Rule 2 (1) that "mouth-wash, eye-drops, eye-lotion, ear-drops, douche or similar article" are not internal medicines. This raises the question as to what they really are; as they are certainly not for external application (so that the words "For external use only" are inappropriate and inapplicable). Presumably it would be in order to include on a mouth-wash label the word "Poison" with or without the words "Not to be taken," the latter on the presumption that such wording is not restricted to liquids other than medicines. The main point, however, is that an official declaration should be made settling this question.

An "Internal" Question

The labelling of suppositories, pessaries and bougies raises a query as to whether or not these are "internal" medicines. Reason requires that absorption of medicament by rectum is equivalent to dosage by mouth or by injection. However, logic in language is hardly in accordance with the use of the words "Caution. It is dangerous to exceed the stated dose," as applicable to internal human medicines, especially as the public associate dosage with medicine to be swallowed. The anomaly of the situation is that labelling suppositories which are in the First Schedule with the word "Poison" is quite correct, whereas this is presumably prohibited when they are unscheduled poisons (and a ruling is necessary to regularise such use).

A Phenols Problem

An anomaly arises in connexion with the status of solids containing less than 60 per cent. of phenols, these being the subject of a special exemption in the Third Schedule to the Poisons Rules and thus not deemed poisons. This special exemption was made with the object of freeing disinfectants in powders or tablet form from the restrictions applicable to poisons, but the use of the words "solid substances" creates anomalies in respect of other articles. Thus lozenges, capsules, pessaries, ointments and suppositories are also the subject of a special exemption under the Third Schedule provided they contain less than 2.5 per cent. of phenols, but those containing over 2.5 and under 60 per cent. of phenols are equally entitled to exemption under the previous provision. If it is intended that phenolic medicaments containing more than 2.5 per cent. of phenols are to remain within the application of the Act and Rules it will be necessary to modify the wording of the "60 per cent." exemption. The same applies to medicated carbolic soap, which is not exempted as a "soap for washing" but is exempted as a solid with less than 60 per cent. of phenols. The laxity in wording is objectionable as (solid) medicines for internal use with over one per cent. of phenols could quite legitimately be held as non-poisonous. Obviously the position in regard to phenolic solids is one requiring clarification.

Chlorodyne

The inclusion of "Chlorodyne, B.P.C.," in the First Schedule is anomalous, as this is due to its hydrocyanic acid content and not to its narcotic potency. THE CHEMIST AND DRUGGIST was the first to call attention to this borderline case, and it was pointed out that exemption from or inclusion in the First Schedule was possible with acid hydrocyan. dil. conforming with B.P. requirements. In certain quarters attention has been called to the desirability of the official chlorodyne being a First Schedule poison owing to the possibility of its unrestricted sale leading to drug addiction. Such suggestion ignores that its morphine content is below both D.D. (and First Schedule) limits, and that the high concentration for drop dosage is responsible for the scheduling thereof. The amount of hydrocyanic acid in the maximum dose of chlorodyne, B.P.C., is about one-eighth the maximum for hydrocyanic acid, which accords with it being an adjuvant to the active ingredient (morphine). The recommendation to retain B.P.C. chlorodyne as a First Schedule poison can only encourage the sale of unofficial chlorodynes. These may have a much greater narcotic potency and yet be free from registration requirements provided the hydrocyanic acid content is below 0.1 per cent. The above example illustrates a poisons anomaly in that the scheduling of a poison may have no relation to its true character or potency.

Other Labelling Queries

The labelling provisions apply to any proportion of poison unless exemption is provided by Rule 11 and the Third Schedule. It is already evident that strict compliance will be required in notifying the presence of small proportions of (unexempted) poisonous ingredients and that the "de minimis" principle will not be accepted as a valid excuse for non-fulfilment of statutory requirements. Minute amounts of poison for non-medicinal purposes may lead to labelling anomalies. For example, an organic mercury compound is used as a preservative for certain biological preparations, and in consequence these have to be labelled "Caution. It is dangerous to exceed the stated dose," despite the fact that the poison *per se* is therapeutically inactive and has no connexion with the treatment or dosage (which vary with the nature of the infection and are varied according to the physician's discretion). In addition the name and nature of the preservative has to be declared in the manner required by regulations made under the Therapeutic Substances Act, and the question arises whether the additional poison law labelling is permissible without the special sanction of the licensing authority. In any case, provision should be made for declaration of the presence of poison for a specific (non-therapeutic) purpose without interfering with proper labelling procedure.

Disclosure Difficulties

The labelling provisions are devised from the view-point of large-scale manufacture and disregard the trouble imposed upon pharmacists retailing odd poisons in small amounts. It is true that the latter may elect to supply under the Section 19 exemption, but this entails entry in a prescription-book, and possibly clerical work out of all proportion to the character of the poison or the profit on the transaction. The labelling of unscheduled poisons is intended to safeguard against error in compounding and excessive dosage. An anomaly is that the physician (who may employ a person who is not a pharmacist to compound the same) need not enter particulars thereof in a prescription-book, whereas the pharmacist compounder has to do so. Since a record is not kept otherwise as regards the supply of unscheduled poisons, there appears no reason why pharmacists should not be relieved from such useless procedure.

German Chemical Industry

THE report on the economic conditions in Germany, compiled by representatives of the Department of Overseas Trade, in Berlin (pp. 287), contains a good deal of useful information on commercial and economic conditions in Germany. The reports on the methods adopted in subsidising exports and for the payment of imports should be of interest to firms trading with Germany.

The report on the German chemical industry is as follows:—

	1929	1933	1934	1935
	(In RM. million)			
Production	4,800	2,800	3,200	3,400
Percentage of whole industrial output	5·5	6·5	5·9	—
Exports	1,597	787	761	763
Percentage of chemical production exported	33	28	24	22

Another estimate sub-divided the output of this industry into foodstuffs RM.520 million, domestic and medical products RM.800 million, supplies to clothing industry RM.450 million, and industrial supplies RM.1,150 million. Exports as a proportion of output are claimed to be higher in the chemical industry than in any other branch. The total value of chemical exports is exceeded only by that of iron and steel products. The distribution of exports, excluding oils, rubber, etc., is given below:—

	1913	1929	1933	1934	1935
	(In RM. million)				
Total	814	1,410	688	651	652
Including—					
Chemicals and intermediate products	219	349	202	183	185
Nitrogen	60	312	60	49	59
Dyestuffs	219	204	134	144	132
Pharmaceuticals	70	131	106	104	109
Photographic materials	22	60	33	36	32
Mineral colours	50	63	34	31	31
Oil colours, varnishes	33	70	34	31	30
Rayon	—	98	33	25	23

Germany supplies about two-fifths of the world's exports of pharmaceuticals and photographic materials. Deliveries of explosives have fallen off from RM.74 million in 1913 to RM.13 million in 1935. Although exports have diminished considerably, the United Kingdom and the U.S.A. are still the most important markets for German chemicals, followed by Holland, Switzerland, Italy and Japan. The demand from Spain, Hungary, Roumania and Bulgaria showed an upward tendency. Sales to Brazil and the Argentine have undergone the greatest improvement. For the first eleven months of the year chemical exports increased by 12 per cent. in volume compared with 1934, but only by 0.8 per cent. in value. The drop in prices was mainly for dyestuffs and fertilisers.

GERMAN DYE TRUST (I. G. FARBENINDUSTRIE).—The annual report of this company for 1934 indicated a rise in home sales, especially in the new branches intended to create additional supplies of raw materials. The maintenance of export business was only possible in some instances by means of higher expenses, sacrifices in prices, and partly by carrying out long-term compensation transactions. The number of persons employed increased from 112,600 in December 1933 to 134,700 in 1934. Additional investment in plant amounted to RM.77 million in 1934, while writings-off accounted for RM.80 million. Stocks dropped from RM.150 million in 1933 to RM.129 million in 1934. The company endeavoured to finance its raw material supplies by foreign credits, which were RM.24 million higher than in the previous year. Net profits amounted to RM.84 million, compared with RM.64 million in 1933. A dividend of 7 per cent. was again declared. A remarkable extension took place in the demand for pharmaceuticals and insecticides. There was a ready market for perfumes, though prices declined. Sales of photographic materials at home were good; business in cinematograph film was quiet. The plans for increasing the benzine output were put into operation. At the end of 1935, 16,500 persons were employed at the Ammoniakwerke, Merseburg/Leuna, compared with 15,100 at the beginning of the year. It was estimated that the German Dye Trust controlled about one-third of the whole output of the chemical industry and some two-thirds of total exports.

The quantities and values of "various chemical and pharmaceutical products" imported into Germany from all sources for the years 1933-35 were as follows:—1933, value RM.51,314,000, quantity 283,187 metric tons; 1934, value RM.45,575,000, quantity 207,607 metric tons; 1935, value RM.40,163,000, quantity 174,598 metric tons, showing a progressive decrease. The quantities and values of "various chemical and pharmaceutical products" exported to all destinations for the years 1933-35 were as follows:—1933, value RM.337,045,000, quantity 739,983 metric tons; 1934, value RM.316,209,000, quantity 718,675 metric tons; 1935, value RM.323,826,000, quantity, 801,223 metric tons. The total trade between Germany and this country for the past three years, in millions of RM., was as follows:—German imports from the United Kingdom: 1933, 238.4; 1934, 205.7; 1935, 256.2. German exports to the United Kingdom: 1933, 405.6; 1934, 382.9; 1935, 374.9. Referring to the methods of restriction of imports, operated by control of finance for payment, the report states:—It is a cardinal principle of the new scheme that foreign exchange certificates authorising payment for imports should only be issued when the necessary foreign currency is actually in possession of the Reichsbank or will be in its possession at due date of payment. In controlling imports by foreign exchange certificate, Control Boards take into consideration the prices of the proposed imports and other selling terms. It became the practice in Anglo-German trade for United Kingdom firms to submit pro-forma invoices setting out prices and terms and for the German prospective importer to send in this pro-forma invoice with his application for a foreign exchange certificate. Until a certificate was issued the business could only be regarded as provisional, and in accordance with the wishes of the promoters of the plan it soon came to be accepted by United Kingdom exporters that goods should not be shipped to Germany until it was reported that a foreign exchange certificate authorising payment at the proper time had actually been issued to the German customer. When payment of an account became due, importers were granted foreign exchange by the Reichsbank up to the amount of the foreign exchange certificate on proving, by means of a Customs clearing certificate, that the goods had been actually imported. A cheque could then be sent to the foreign exporter in the usual way.

SUBSIDY SCHEMES FOR EXPORTS.—This assistance has been given in various ways. Several methods depended on making use in Germany's favour of the prohibition under the foreign exchange regulations of the repayment of capital sums due to foreigners and, later, the complete moratorium for interest payments. These measures naturally depressed the prices of all German securities and property rights held by foreigners abroad. But the securities remained at full, or, at any rate, greater value to residents in Germany who could receive payment of the whole interest and prices quoted in Germany were accordingly much higher than abroad. German firms wishing to sell goods on the world market, but finding it impossible to do so owing to lower prices of competing foreign firms, could, with the permission of the foreign exchange authorities, purchase German bonds or shares with foreign exchange at the depreciated foreign market figure, repatriate them, and sell them at a profit on the home market, the profit being used to compensate the German firm for loss on the export transaction. Similarly, use was made of the bank accounts of foreigners which were blocked by the moratorium of 1931 and of other untransferable amounts which were paid into blocked accounts. These accounts could be bought up by German concerns—some were established for the purpose—at a heavy discount. The profit made on such transactions, which could only be carried out with the permission of the foreign exchange authorities, had to be devoted to the subsidy of exports. As it was clear that Germany with high inland prices, rising costs of production, and the Reichsmark nominally on the Gold Standard, could not compete in price with other nations on the world market, and as the sources from which the subsidies described above gradually dried up, other means had to be found in order to assist exports. Through an agency a levy was made on all industrial enterprises in order to form a subsidy pool centralised on the Gold Discount Bank for assistance of exports. Contributions to the fund may not be recorded separately in balance sheets, and the amount by which a given export transaction is assisted may not be notified to the foreign customer.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, August 6

FINE chemicals have been a quiet market over the Bank holiday period, but pharmaceuticals have been in fair demand. The important price change of the week is a reduced scale for SANTONIN at first hand. This came into operation immediately after the holiday. Prices of chemicals are not directly influenced by the situation in Spain, but rises in mercurials are by no means improbable in the near future, owing to exhaustion of mercury stocks, as mentioned below.

Crude Drugs

London stocks of MERCURY are now exhausted and future supplies are not guaranteed. The price has risen sharply, but in the circumstances is nominal. Spot stocks of other Spanish commodities are being held for the present, and nothing is coming through. Higher prices are being asked for Portuguese ERGOT, but no great volume of business has been done, as the opinion is widely held that the Spanish harvest will be gathered in spite of the civil war. Though not immediately, this will, if it materialises, ultimately pass through the usual channels of trade. A number of American drugs, including CASCARA SAGRADA, HYDRASTIS and SENEGA are appreciably firmer. There are two causes for the advance in cascara prices. Strippers are fewer, some having interested themselves in other commodities; and the demand for short bark has been particularly good this year. BUCHU continues strong. The present good prices cannot be weakened by new crop leaves for several months. New season's CHAMOMILES are now available, but the quality is comparatively poor, growers having shared the unfavourable weather of our so-called "English summer." Rather more interest than recently has been shown in MENTHOL and DERRIS.

Essential Oils

Few changes were to be expected in this very short "week," and few have, in fact, occurred. CAJUPUT, LEMONGRASS, Japanese PEPPERMINT and WORMSEED are firmer. There is still no shipment business being done in Sicilian oils, and spot stocks are firmly held. EUCALYPTUS is a strong market, with prices firm. Recent rains in drought areas have helped the crop situation in American PEPPERMINT, but the yield is nevertheless small and growers are holding for higher prices. SPEARMINT prices have advanced from the same causes.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	August 6	Value of the £
Amsterdam	Fls. to £	12·107	7·39	12/2¼
Berlin	Mks. to £	20·43	12·47	12/2¼
Brussels	Belgas to £	nominal	29·79	17/0½
Copenhagen	Kr. to £	18·159	22·40	24/8
Lisbon	Esc. to £	110	110½	20/0
Madrid	Ptas. to £	25·22½	37⅜	29/7
Milan...	Lire to £	92·46	63¾	13/9¼
Montreal	Dol. to £	4·86⅔	5·01⅝	20/7
New York	Dol. to £	nominal	5·01 11/16	20/7
Oslo	Kr. to £	18·159	19·90	21/11
Paris	Fr. to £	124·21	76 3/32	12/3¼
Prague	Kr. to £	164·25	121⅝	14/9
Stockholm	Kr. to £	18·150	19·39½	21/1½
Warsaw	Zloty to £	43·38	26⅝	12/2¼
Zurich	Fr. to £	25·2115	15·38	12/2½

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

BUSINESS was as active as could be expected over the Bank holiday period. A new scale of reduced prices for santonin is recorded this week.

ACETANILIDE.—Quoted unchanged: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

BARBITONE.—Small inquiry at prices which continue keen: spot, one cwt., 15s. 3¾d.; 56 lb., 15s. 8d.; small parcels, up to 16s. 3d. per lb.

BENZOIC ACID (B.P.).—Inquiry about average: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Demand is moderate at the makers' scales of prices: Carbonate, B.P., one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; less than 8 lb., 8s. 6d. per lb., with rebates on contracts for larger quantities.

BROMIDES.—No weakening of makers' and dealers' scales of prices. Home trade: Potassium B.P., not less than 5 cwt., 1s. 7d.; not less than one cwt., 1s. 8d.; not less than 28 lb., 1s. 11d.; 14 lb., 2s. 1d. per lb. Sodium, B.P., not less than 5 cwt., 1s. 9d.; not less than one cwt., 1s. 10d.; not less than 28 lb., 2s. 1d.; 14 lb., 2s. 3d. per lb. Ammonium, B.P., not less than 5 cwt., 1s. 10d.; not less than one cwt., 1s. 11d.; not less than 28 lb., 2s. 2d.; 14 lb., 2s. 4d. per lb., net. 28 lb. parcels and one cwt. cases free. Distributors' prices for quantities less than 14 lb. would be at higher figures. Scales of prices for export, quoted f.o.b. London for prompt shipment, are as follows: POTASSIUM, 5 cwt., 1s. 1½d.; one cwt., 1s. 2d. SODIUM, 5 cwt., 1s. 2½d.; one cwt., 1s. 3d. AMMONIUM, 5 cwt., 1s. 4d.; one cwt., 1s. 4½d. per lb.

BUTYL CHLORAL HYDRATE.—Inquiries have been few: spot, 14 lb., 8s.; 7lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CALCIUM LACTATE.—A steady business continues to be done at the existing prices: spot, one cwt., 1s. 0¾d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2½d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Makers' prices unchanged: duty paid crystals, in 14-lb. free containers, five cwt., 3s. 1d.; one cwt., 3s. 2d.; 28 lb., 3s. 3d.; 14 lb., 3s. 4½d. per lb.; 28-lb. jars, one penny per lb. extra.

CHLOROFORM.—Makers' prices are unchanged, as follows: two cwt., 2s. 5½d.; one cwt., 2s. 6d.; 56 lb., 2s. 6½d.; less, 2s. 7½d. per lb., in w-quarts of 8 lb. Packed in drums, ½d. per lb. less. Small bottles extra, from 5d. per lb. for ¼-lb. bottles to 1d. for 2-lb. bottles. Carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—Fair volume of business: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—The price for British material, 99 to 100 per cent., remains stable at 79s. per cwt., less 2½ per cent. discount. For foreign material, competitive prices are offered.

CREOSOTE (B.P.).—Business dull, although prices continue competitive: bulk quantities, in 25-kilo demijohns, 1s. 8d. to 1s. 9d.; small parcels, 1s. 9½d. to 2s. 3d. per lb., ex store.

HEXAMINE.—Makers' prices for bulk quantities are competitive: fair business: B.P. powder, from 1s. 3d. to 1s. 4d.; free-running crystals, from 1s. 4d. to 1s. 8d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 5d.; one cwt., 1s. 6d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

IODIDES.—Makers' scales of prices steady at the recent reduction: POTASSIUM IODIDE, B.P., for quantities not less than one cwt., 4s. 6d.; 28 lb., 4s. 8d.; 14 lb., 4s. 10d.; 7 lb., 5s. 4d.; 4 lb., 5s. 10d.; smaller quantities, 6s. 6d. per lb. SODIUM IODIDE, B.P., for quantities not less than 28 lb., 5s. 6d.; 14 lb., 5s. 8d.; 7 lb., 6s. 2d.; 4 lb., 6s. 10d.; smaller quantities, 7s. 10d. per lb. IODINE, B.P. resublimed, for quantities not less than one cwt., 5s. 6d.; 28 lb., 5s. 8d.; 14 lb., 5s. 10d.; 7 lb., 6s. 4d.; 4 lb., 7s.; smaller quantities, 7s. 11d. per lb. IODOFORM, B.P., crystal, precipitated or powder, for quantities not less than 28 lb., 8s.; 14 lb., 8s. 2d.; 7 lb., 8s. 10d.; 4 lb., 9s. 8d.; smaller quantities, 10s. 8d. per lb. Sales terms: Contracts for one cwt. or more (assorted if required) with "Fall Clause," for delivery over four months. No rebate now applies. Packages: Tins, 28-lb. jars and one-cwt. cases, free. Bottles extra or returnable within three months, carriage paid. Delivery: Carriage paid on all quantities. Re-sale: It is a condition of sale that buyers undertake not to re-sell at prices below or on terms other than those ruling at the time of re-sale.

IRON QUININE CITRATE.—Makers' prices are as follows: not less than 100 oz., 10½d., in 100-oz. tins; 10¾d., in 25-oz. tins; 11d., in 16-oz. bottles; 11¼d., in 4-oz. and 8-oz. bottles; 1s. 0½d., in 1-oz. bottles; less than 100-oz. lots, from 11d. to 1s. 4d. per oz., according to packing and quantity.

LACTIC ACID (B.P.).—Prices remain steady at the previous rates: quantities, in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 10½d. per lb., as to quantity.

MERCURIALS.—No change in makers' prices: Chloride, B.P., not less than one cwt., 4s. 11d. per lb.; less than one cwt., from 5s. per lb. upwards, as to quantity.

METHYL SALICYLATE.—No further price change and prices about steady: spot, ten cwt., 1s. 1¾d.; five cwt., 1s. 2d.; one cwt., 1s. 2¼d.;

less than one cwt., 1s. 2½d.; small quantities in bottles, up to 2s. per lb.

PARAFORMALDEHYDE.—Fair average business, prices keen: 100 per cent. powder, quantities in kegs, 1s. 1d.; smaller parcels, up to 1s. 9d. per lb., as to quantity.

PHENACETIN.—Steady and quiet: crystals or powder, bulk quantities, 2s. 6d. to 2s. 7d.; smaller parcels, 2s. 7½d. to 3s. per lb., as to quantity.

PHENOLPHTHALEIN.—Keen quotations continue to be offered in this quiet market; the standard prices are: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYL ETHYL BARBITURIC ACID.—Quoted at 25s. to 26s. per lb. (2-lb. bottles).

RESORCIN.—Prices for British material remain steady at the former levels: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. per lb.

SACCHARIN.—The Convention price is steady and unchanged. 550, 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Limited buying. The makers' scale of prices for home buyers is unchanged: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

SALOL.—Business has not been extensive and prices continue steady: spot, crystals, two cwt., 3s.; one cwt., 3s. 0½d.; 56 lb., 3s. 1¼d.; smaller parcels, 3s. 2d. to 3s. 6d. per lb.; powder, 2¾d. per lb., extra.

SANTONIN.—At the beginning of the week a new scale of prices for santonin at first hand came into operation, as follows: 10-kilo. lots at £20 11s. per kilo.; 3-kilo. lots at £21 per kilo.; 1-kilo. lots at £21 15s. per kilo.; and quantities of less than one kilo. at £22 15s. per kilo. Special prices obtain for export buyers.

SODIUM BENZOATE (B.P.).—Prices are keen for bulk quantities; average prices for smaller quantities are: one cwt., 1s. 7d.; smaller parcels, 1s. 8d. to 1s. 10½d. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Business in small lots; prices unchanged: spot, one cwt., 13s. 3d.; 28 lb., 13s. 6d.; 14 lb., 13s. 9d.; 7 lb., 14s.; smaller parcels, up to 14s. 6d. per lb.

SODIUM SALICYLATE (B.P.).—Home makers' prices quoted unchanged: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 11d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

SULPHONAL.—Buyers few and dealers' prices inclined to be irregular: crystals or powder, two cwt., 15s. 5¼d.; one cwt., 15s. 10¾d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 9d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Prices of British material continue steady at 1s. per lb., less 5 per cent. discount; business about average. Dealers offering foreign materials at competitive prices.

THYMOL.—Business is dull but prices continue steady: synthetic, fine white, one cwt., 5s. 10d.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; smaller parcels, 7s. 6d. per lb.; ex ajowan seed, one cwt., 8s. 7d.; 56 lb., 8s. 10d.; 28 lb., 9s. 4d.; 14 lb., 10s. per lb.

VANILLIN.—No alteration in Convention rates: ex clove oil or guaiacol, five cwt., 12s. 9d.; one cwt., 13s.; 56 lb., 13s. 3d.; less, 13s. 9d. per lb.

Crude Drugs, etc.

AGAR.—Steady routine demand. Prices a fraction easier for August-September shipment: Kobe No. 1, spot, 2s. 7½d.; No. 2, 2s. 5d.; Yokohama No. 1, 2s. 4½d. per lb.; shipment, Kobe No. 1, 2s. 4½d.; No. 2, 2s. 2d.; Yokohama No. 1, 2s. 1d. per lb., c.i.f.

ALOES.—A small amount of shipment business in Cape has been done from the origin, mostly in small amounts, at around 58s. 6d.; there is very little on spot, where the price is 64s. Curaçao, unchanged, spot, 97s. 6d. to 110s., as to quality; shipment, 87s. 6d.; August-September, 85s. per cwt., c.i.f.

ANTIMONY.—Chinese crude, August-September shipment, quoted at £24, c.i.f. On the spot, English regulus is priced at £64 10s. to £65 10s.

BUCHU.—Further business has been done at 3s. per lb., and close-up bids have been refused: shipment orders from New York have been met at 2s. 7d. at the source. Ovals, 2s. 5d. to 2s. 6d.

CAMPHOR.—A steady market, with values unchanged: Japanese, spot, tablets, 2s. 5d.; powder, 2s. 2¾d.; slabs, 2s. 2¼d. per lb., duty paid; shipment, tablets, 2s. 1¼d.; powder, 2s. 0¼d.; slabs, 1s. 11¾d. English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ⅓ oz. and ¼ oz., 3s. 6d. per lb. Contracts at special prices.

CANTHARIDES.—Small amount of business in Chinese: spot, 2s. per lb., duty paid, as to quantity; shipment, August-September, 1s. 5d., c.i.f.

CARDAMOMS.—Bombay, spot, 4s. 2d. per lb.

CASCARA SAGRADA.—There has been a sharp rise in both spot and shipment prices. A report from the source indicates that there has been a specially good demand for short peel. It appears also that some former strippers have found other occupations more profitable, thus reducing the supply: spot, 1933, 65s.; 1934, 60s. to 62s.; 1935, 55s. to 57s. 6d.; new crop, 48s. to 50s., c.i.f., but offers difficult to obtain.

CHAMOMILES.—New crop flowers are now being offered, but the quality is poor, rain having made collection difficult: first pickings, 120s. to 130s., duty paid.

CLOVES.—Business has been quiet and prices remain steady at the higher levels recorded last week: Zanzibar, spot, 7¾d.; shipment, August-September, 7⅝d. per lb., c.i.f.; Madagascar, in bond, 7¼d.; shipment, August-September, 7d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended August 1 were *nil*, and the deliveries 115, leaving a stock of 1,603. From January 1 to date the landings of Zanzibar have been 2,937 and the deliveries 2,179. Landings of Madagascar for the week ended August 1 were *nil*, and the deliveries *nil*, leaving a stock of 1,298. From January 1 to date landings of Madagascar have been 2,218 and the deliveries 2,382 packages.

COCONUT (DESICCATED).—The market continues quiet: spot, fine, 23s.; medium, 22s. 6d. per cwt.; shipment, halves, August, 21s. 3d.; September, 21s. 4½d.; October-December, 21s. 9d., c.i.f.

COD-LIVER OIL.—The market is decidedly firmer, with buyers in the majority: finest Lofoten steam refined non-freezing medicinal oil, 88s. to 89s. per barrel, c.i.f., according to brand; London, spot, in small lots, 126s. per barrel, ex store, duty paid; Newfoundland, non-freezing medicinal oil, about 130s. per barrel, ex store; British non-freezing medicinal oil is now quoted at 100s. per barrel, c.i.f., London, duty free, while quotations from another home source are at higher figures.

DERRIS ROOT.—The volume of business has been considerable at a price of 9¾d. per lb., c.i.f., for November-December shipment (17 per cent. ether extract).

ERGOT.—Portuguese has been offered at 2s. 10d. to 3s. 3d., c.i.f., but little business has been done. It is generally felt that the Spanish crop will be collected, despite political troubles, and that the price position will ultimately become normal again. There are no offers of Russian.

GENTIAN.—Unchanged: spot, 40s. per cwt. for small parcels.

GINGER.—Market continues quiet: West African, spot, 65s.; shipment, August-September, 62s. per cwt., c.i.f. Jamaican, spot, sold in barrels, 85s. to 90s.; small grinding, 62s. 6d. per cwt., in bags, ex store.

GUM ACACIA.—Quiet, unchanged: spot, Kordofan cleaned sorts, 42s.; bleached No. 1, 110s.; extra, 120s. per cwt.; shipment, Kordofan cleaned sorts, 39s. 6d. per cwt., c.i.f.

HYDRASTIS.—The market is distinctly firmer, with spot at 10s. 6d. per lb. and shipment from 10s. 3d. per lb., c.i.f.

IPECACUANHA.—The export demand for Matto Grosso, B.P. quality, has been good, although spot prices are a trifle easier: Matto Grosso, 5s. 2d. to 5s. 3d. per lb., shipment, 4s. 10d. per lb., c.i.f.

LOBELIA HERB.—Little interest has been shown. Supplies are available on spot at 7¼d. to 8d. per lb. Shipment, September-October, is offered at 5¾d. per lb., c.i.f.

LYCOPODIUM.—The spot position is unchanged. One offer for August/September shipment from Poland at 7s. 6d. per kilo., c.i.f., has been accepted.

MENTHOL.—Business has been rather better. Spot, K/S brands, 13s. to 13s. 3d. per pound; in bond, 11s. 7½d. to 11s. 9d.; Shipment, August-September, 11s. 3d., c.i.f. Some acceptances at 11s. for October-December shipment have been reported. Chinese, steady and firm: spot, 13s.; shipment, 11s. 1½d., c.i.f. English synthetic quoted from 7s. 6d. to 10s. 6d. per lb., as to quantity.

MERCURY.—The situation is very confused and there is no guarantee that shipment orders will be met. There are no further supplies available on the London market. Prices (nominal), 60 dollars 50 cents per bottle, f.o.b. Continent; spot, in small lots, £12 3s. per bottle, ex store.

OPIUM.—Small lots continue to be bought, the prices being unchanged: spot, Turkish, 1s. 3d. to 1s. 4d. per unit, landed and duty paid. Persian, 12 per cent., 12s. 3d. per lb., in bond.

ORRIS ROOT.—On the spot, 57s. 6d. per cwt. is asked for the small quantities available.

PEPPER.—Business continues quiet; forward shipment prices for black have appreciated slightly: Lampong, in bond, 2⅛d.; shipment, August-October, 2d.; October-December, 2d.; January-March, 2 3/16d.; March-May, 2¼d., c.i.f. Tellicherry, spot, 4¾d.; shipment, August-October, 33s. 6d., c.i.f. Aleppy, spot, 4½d.; shipment, August-October, 32s. 6d., c.i.f. White Muntok, in bond, 4¼d.; shipment, August-October, 3 15/16d.; October-December, 4d. per lb., c.i.f.

PIMENTO.—Continues steady at the recent advance: spot, 7⅝d. per lb., shipment, August-September, 67s. 6d. per cwt., c.i.f.

RHUBARB.—Demand slow. A fair stock of Shensi is available on spot at 4s. 4½d. to 4s. 9d.; pickings, 2s. 7½d. to 2s. 10½d. The spot price for rough round, all pinky, is 1s. 6d., and for ordinary, 1s. 5d. Shipment prices are fractionally easier at 1s. 2¼d. (all pinky) and 1s. 1¼d. (ordinary) per lb., c.i.f.

RUBBER.—Prices steady: standard ribbed smoked sheet, spot, 7¾d.; August, 7⅝d.; September, 7¾d.; October-December, 7 11/16d.; January-March, 7¾d.; April-June, 7 11/16d. per lb.

SAFFRON.—Spot stocks firmly held at the following prices: B.P. 1898, prime, 43s.; extra, 40s. 6d.; super, 37s. 6d. per lb., and less for bulk quantities. No shipment offers from Spain.

SARSAPARILLA.—Position approximately as last week: spot, Jamaican grey, 1s. 2d. to 1s. 3d.; native, mixed colours, 10d. to 11d. per lb., as to quantity, spot.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 55s. 6d.; Bulgarian, 29s. CANARY.—Spot, Mazagan, 27s. 3d.; Spanish, 40s. to 45s., all duty paid. New crop Mazagan for shipment quoted at 21s. 6d., c.i.f. CARAWAY.—Dutch, offered at 37s. 6d., duty paid; 32s. 6d. quoted, f.o.b. Holland. Coriander.—Old crop, 18s. 6d., duty paid; new crop, just landed, quoted at 17s., duty paid. It is reported that the early arrivals of new crop are slightly country-damaged. CUMIN.—Spot, Malta, 42s.; Morocco, 39s., duty paid. FENNEL.—Indian, on spot, 32s. 6d. FENUGREEK.—Spot, MOROCCO, 13s. 6d. duty paid; new crop, for shipment, 11s. 6d., c.i.f. MUSTARD.—English, 20s. to 31s. per cwt., according to quality.

SENEGA.—Firm. Shipment, new crop, 1s. 5½d. to 1s. 6½d. per lb., c.i.f. Spot, 1s. 6d. to 1s. 6½d. per lb.

SENNA.—Quiet, unchanged. Leaves, Tinnevelly, good bold, 7d.; No. 1, 6d.; No. 2, 4½d.; No. 3, 3d. per lb. Pods, Alexandrian, No. 2 quality, 2s. 6d. to 2s. 9d. per lb. Cheaper qualities from 1s. 3d. to 2s. 3d. per lb.

SQUILL.—Spot, seconds, around 35s. per cwt.

TONKA BEANS.—Quoted at 4s. 3d. per lb., spot. Supplies limited. New crop, for shipment, 2s. 9d. per lb., c.i.f.

TRAGACANTH.—The market is steady, although inquiry has, of course, been less over the holiday. Prices for manufacturing grades unchanged, but whites very firm. Elect has now advanced to £36 and No. 1 white to £34 per cwt.

WAX.—BEES'.—Spot supplies continue very small, prices unchanged. Calcutta, bleached, spot, 135s.; only distant shipment offers now being made, with November 122s. 6d., c.i.f. Abyssinian, spot, 120s.; in bond, 108s.; shipment, 107s., c.i.f.; Benguella, spot, 120s.; shipment, 108s., c.i.f. Conakry, no spot available; shipment, 118s. 6d. per cwt., c.i.f. Dar-es-Salaam, spot, 120s.; shipment, 118s. 6d. per cwt., c.i.f. CARNAUBA.—Spot supplies very limited and offers few. Fatty grey, spot, 165s.; afloat, 158s.; shipment, July-August, 158s., c.i.f. Chalky grey, spot, 162s. 6d.; shipment, July-August, 157s., c.i.f. Primeira, spot, good quality, 215s.; f.a.q., 205s.; afloat, 205s.; shipment, July-August, 196s., c.i.f. Mediana, spot, 205s.; shipment, 192s. 6d. per cwt., c.i.f.

Essential Oils, etc.

MARKETS generally as quiet as expected. Eucalyptus is strong. Stocks of Spanish oils are being held. Cajuput is firmer. American peppermint prices are very firm and a rise is not improbable. Shipment offers of clove are very difficult to obtain.

ALMOND.—Business quiet; prices unaltered at the previous quotations: English expressed, cwt. lots, 2s. 2½d.; smaller parcels, up to 2s. 6d. per lb.; foreign, cwt. lots, 2s. 3½d.; smaller parcels, up to 2s. 7d. per lb. French, bitter, 6s. 3d. per lb.

ANISE (STAR).—Shipment business is reported to have been done earlier in the week at 1s. 10½d. (drums) and 1s. 10¾d. (tins), but at the present time there are no offers from origin. The spot market is quiet: leads, 2s. 5d., nominal; tins, 2s. 2½d.; drums, 2s. 1½d. per lb., ex store; shipment, re-sellers, drums, 1s. 10½d. per lb., c.i.f.

BAY.—Prices firm: 49 to 50 per cent., 4s. 9d. to 4s. 10d.; 59 to 60 per cent., 5s. to 5s. 1½d. per lb., as to quantity.

BERGAMOT.—Spot business not very lively, but prices distinctly firm in the region of 9s. per lb., as to brand, quantity and seller. Shipment prices are purely nominal as no business is being done.

BOIS DE ROSE.—Business continues small and prices steady: Brazilian, spot, 5s. to 5s. 3d.; shipment, about 4s. 10d. per lb., c.i.f.

CAJUPUT.—The upward tendency forecast last week has been confirmed, prices being a shade firmer: B.P., 1s. 10d. to 2s. 2d. per lb., as to quality and quantity.

CANANGA.—Last week's firm position continues: spot prices range from 8s. 3d. to 9s., as to seller; shipment is in the region of 8s. per lb., c.i.f.

CARAWAY.—Slow, unchanged: Dutch rectified, 9s. to 9s. 1½d., crude, 8s. 6d. to 8s. 9d. per lb., landed and duty paid.

CASSIA.—Inquiries continue small: spot, good quality, 3s. 2d.; inferior quality, 2s. 10d. per lb.; shipment, drums, 2s. 5¾d.; leads, 2s. 8¼d., c.i.f.

CEDAR LEAF.—A small quantity available on spot at 5s. 6d. to 5s. 9d. per lb.

CEDARWOOD.—Occasional small demand: African, in drums, 1s.; smaller packages, up to 1s. 4d. per lb. American, in drums, 1s. 1½d.; smaller packages, up to 1s. 4½d. per lb.

CINNAMON LEAF.—Ceylon oil, spot, drums, 2s. 10½d.; smaller packages, up to 3s. 1½d. per lb.; shipment prices unchanged at 2s. 5½d. per lb., c.i.f.

CITRONELLA.—Position unchanged: Ceylon, spot, drums, 1s. to 1s. 1d.; smaller parcels, up to 1s. 4½d.; shipment, drums, about 8½d. per lb., c.i.f. Java, spot, drums, 1s. 3d.; smaller parcels, 1s. 4d. to 1s. 7d.; shipment, drums, 1s. 0½d. per lb., c.i.f.

CLOVE.—Prices nominally unchanged but shipment offers very difficult to obtain: Madagascar, spot, drums, 3s. 3d. to 3s. 4d.; smaller packings, up to 3s. 7d. per lb.; shipment, nominal, 2s. 10½d. per lb., c.i.f. English oil, still very firm at 4s. 5d. to 4s. 6d.

EUCALYPTUS.—Buying has been good and prices are fully firm: Australian, 70 to 75 per cent., 1s. 2¼d. to 1s. 2¾d.; 80 to 85 per cent., 1s. 3¼d. to 1s. 3¾d. per lb., landed; higher prices for small lots on spot. Spanish, 70 to 75 per cent., 1s. 3½d. per lb., ex store.

GERANIUM.—Not a very active market but price levels about steady: Bourbon, spot, 21s. to 21s. 6d.; shipment, 19s. 7½d., c.i.f. Algerian, spot, 21s. to 22s.; shipment, 20s. per lb., c.i.f.

GRAPE-FRUIT.—Prices for Empire and Californian hand-pressed quoted on the spot from 14s. to 14s. 6d. per lb., as to quantity.

HO (SHIU).—Quiet, prices keen: spot, from 1s. 6d. to 2s. per lb., as to quality and quantity.

JUNIPER BERRY.—Dull; prices, on spot, range from 2s. 10d. to 3s. per lb., as to quantity.

LAVENDER.—News of the new crop is still awaited; meantime there is no activity in the spot market, prices varying from 18s. to 29s. 6d. per lb., landed, as to percentage.

LEMON.—Business in Sicilian hand-pressed continues negligible on the spot at 7s. 9d. to 8s. 9d. per lb.; forward, the position is still dominated by the virtual stalemate between this country and Italy. Californian distilled, regular quality, small drums, 3s. 9½d.; cold-pressed unchanged, 6s. 3d. per lb., c.i.f.

LEMONGRASS.—The firmer tendency is being maintained and shipment prices are a shade up: 1s. 6d. to 1s. 6½d., c.i.f.: spot, nominal, from 1s. 10d. per lb., according to quantity.

MANDARIN.—Any genuine oil available on spot is firmly held at 31s. 6d. per lb. The shipment prices are nominal in the region of 18s. 3d. per lb., c.i.f.

NUTMEG.—Spot supplies are available at 5s. 4d. to 5s. 6d. per lb., as to quantity.

ORANGE.—Spot and shipment prices for Sicilian are nominal; no business is going forward. Demand for French Guinea is very slow and with no improvement in the weather the prospects of greater activity are slight: spot, drums, 3s. 4d.; smaller packings, up to 4s. per lb. Prices for Californian steady: one case, 4s.; two or more cases, 3s. 10d.; small drums, 3s. 9d. per lb., c.i.f.

PALMAROSA.—Still a quiet market: spot, 5s. 10d. to 6s.; shipment, 5s. 6d. to 5s. 9d., c.i.f.

PATCHOULI.—Fair amount of business; price levels steady: Singapore, spot, 16s. 3d. to 16s. 6d.; Seychelles, 12s. to 12s. 3d. per lb.

PEPPERMINT.—The firm tendency continues and good business is being done: spot, 6s. 1½d. has been paid, but little now available under 6s. 3d.; shipment, August-September, 5s. 10d., c.i.f.; re-sellers, 5s. 9d.; October-December, considerable business was done at 5s. 2d., but the cheapest is now 5s. 4d. per lb., c.i.f. Indications are that American shippers will expect higher prices. Present quotations are from 2 dollars 40 cents to 2 dollars 55 cents per lb., c.i.f. Chinese, spot, 6s.; shipment, August, 5s. 6d.

PETITGRAIN.—The position remains steady and quiet: spot, cases, 3s. 6d.; smaller packages, up to 3s. 10½d.; shipment, 3s. 3d., c.i.f., in cases.

ROSEMARY.—On the spot, prices are firm around 2s. 3d. per lb. for good-quality oil. There are no forward shipment offers.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot; practically no second-hand offerings. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 5s. 10½d.; 56 lb., 6s. 1½d.; 14 lb., 6s. 4½d. per lb. Australian oil continues steady: 5 cases, 14s. 6d.; one case, 14s. 9d.; 7-lb. tins, 15s. 3d. per lb.

SASSAFRAS.—A small amount of business is being done on the spot: prices, 3s. 7d. to 3s. 9d. per lb. Cheaper prices obtain for artificial oil.

SPEARMINT.—The upward tendency previously reported prevails. spot, 9s. 6d.; shipment, 8s. 9d. to 9s. 9d., c.i.f.

SPIKE.—Uncertainty as to the Spanish position continues, and any shipment prices are therefore purely nominal. On the spot, the prices quoted are 3s. 8d. to 4s. per lb., as to quantity and quality.

TI-TREE.—The price asked on the spot is about 80s. per gallon; shipment prices mentioned are as low as 52s. 6d. per gallon, c.i.f., in four-gallon tins.

VETIVERT.—Bourbon oil is available on the spot at about 37s. 6d. per lb.

WORMSEED.—Firmer. U.S.P. oil, spot, 9s. 3d.; shipment, 8s. 10½d., c.i.f.

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Apothecaries' Assistants

SIR,—Resolutions are all right, but let us have "solutions"; let us dissolve the Apothecaries' Assistants' examination (under the Apothecaries Act of 1815) by bringing about a fusion of the two bodies, the Pharmaceutical Society and the Society of Apothecaries of London (by Act of Parliament if necessary). The examination should then be incorporated in the Society's syllabus, the student to sit by compulsion twelve months after passing Part One, or twelve months after completion of apprenticeship (this would make his master give him a good apprenticeship). The student would then have completed his apprenticeship and be fully competent to take up the studies for the final. If this came about it would definitely find us a place in the sun, because the doctors would have no dispensers and therefore dispensing would pass into the legitimate channel, the pharmacist.—Yours, etc.,

Manchester. F. WATERS ROBINSON.

SIR,—The registrar of the Society of Apothecaries complains of misleading statements at the Bournemouth Conference, but is he not himself guilty of the same fault in his letter to you, published in THE CHEMIST AND DRUGGIST of August 1? The Apothecaries Act of 1815 gives authority to the Society to examine candidates as to their ability to act as assistants to an apothecary, and limits that assistance to that part of an apothecary's duties appertaining to the handling of drugs and dispensing prescriptions under supervision. Only medical practitioners who hold the Society's qualifications are apothecaries and these are a small minority of the medical profession. The apothecaries' assistant's certificate confers no right on the holder to act as a dispenser or assistant to medical men holding other qualifications.

Yours faithfully,

M.P.S. AND ASSISTANT, SOCIETY OF APOTHECARIES (5/8).

SIR,—"Hall" dispensers are capable and reliable. The chemist cannot throw stones. He does prescribing and puts up his own lines for specific diseases. What is sauce for the goose is sauce for the gander. In optics there are several examining bodies, including one run by the chemists. Why should one have a monopoly in this land of "live and let live"? If some chemists were to try the Hall examination they would realise that it is necessary to know dispensing thoroughly before expecting a pass. To know the Latin name or the natural order of some wild flower is not much use at the dispensing counter, e.g., to turn out a good batch of pills or suppositories or a mixture. It is time that the Hall dispenser was made registerable with the Pharmaceutical Society or the General Medical Council, as suggested by "Fair Play." We do not claim to be infallible.—Yours, etc.,

HALLIQUALL (5/8).

SIR,—I should like to express my agreement with "Fair Play" (*C. & D.*, August 1, p. 143) in his desire that all qualifications for dispensing should be levelled up and made registerable with the Pharmaceutical Society, a step which would eliminate many of the anomalies which exist at present. But I was writing of things as they are, and not as they might be; and I would point out there is a distinction with more than a little difference between the chemists' qualification and that of the "Hall." Both in the old Pharmacy Act and in the new one of 1933, the qualification is stated to be for the retailing, dispensing and compounding of poisons, and it will be noted that retailing is the first provision. It is therefore obvious that when one advertises in a trade paper for a qualified assistant for a retail pharmacy, it means one who is on the register of the Pharmaceutical Society and is able to conduct the sale of poisons by retail. I have no doubt that many "Hall" dispensers are very capable—indeed, I once employed one who was extremely reliable; but I venture to think there is a difference between dispensing in a pharmacy and dispensing in the average doctor's surgery, where stock mixtures, pills and tablets are the general rule.—Yours truly,

FULLIQUAL (5/8).

Future of Private Trading

SIR,—In the article on the future of private trading (*C. & D.*, August 1, p. 135) it is stated that the chain-store system of trading has assumed an international aspect, and several countries are named in which it has been established. During periodical visits to the Continent I have had many conversations with pharmacists in different countries, and I have been given to understand in Belgium that the multiple concern would not be allowed in pharmacy; in France there is the rule of one pharmacist one shop, and in Germany the number of pharmacies is restricted according to the population. On the wider question, it may be true that the opening of branches of chain stores brings additional custom to a locality; but as these concerns seem willing to pay high figures to obtain central positions it means a rapid rise in rentals and assessments, an increase which the private trader, especially the pharmacist, cannot meet, and so we see in many towns the main street almost completely occupied by the branches of multiple shops. I am doubtful whether the shopping public are generally anxious to support the private trader in contradistinction to the stores, when I see the crowded conditions of the store shops and read the figures of the profits they declare.—Faithfully yours,

CONTINENTAL (4/8).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Treatment of Warts

I understand that if oil of cedar wood is used daily to damp the warts, they will very quickly noticeably diminish in size until they disappear. Castor oil acts similarly but more slowly. —*C. A. Scurr*, Barnet.

Quaint Directions

In this month's batch of N.H.I. scripts I have two which were brought in by different patients within five minutes of each other and reading: "Garg. chlori. ʒviij. ℥ss. t.d.s.p.c. ex aqua."—*M. R. I. S.* (29/6).

The direction "t.i.d.p.c." on a prescription for calamine lotion (*C. & D.*, June 20, p. 697) is not the only example of its kind. On at least three occasions we have had the following (N.H.I.): "Ung. hyd. ammon. ʒiv. ℥ss. t.d.s."—*S. W.* (30/6).

The Prescribing of Insulin

The warning of Mr. K. J. Padwick regarding the supply of insulin (*C. & D.*, July 18, p. 94) is timely. One cannot expect ordinary persons to be familiar with the method of stating the strength in terms of units per c.c., and price is not always an indication. Surely the simplest way for a doctor to be assured that the patient will purchase the correct strength is to give him a prescription with the necessary details; the chemist cannot know which one is required when a customer merely asks for insulin and can give no further indication.—*Insulate* (20/7).

Warning

John Saville & Sons, chemists, 4 Goodramgate, York, send us the following warning from the York City Police:—

On July 22, 1936, a man entered a chemist's shop in this city and handed in a Dufaycolor film to be sent away for process. He then stated that he and some friends wished to make a presentation of a camera and asked to be allowed to take one or two on approval, and was allowed to take two cameras away: one No. 74 Agfa Speedex Clack Camera, value £1 16s., and one 20 Kodak Anastigmat *f*6.3. Camera, value £3 12s. 6d. He gave the name of "Mr. Wilson, 'Hazelwood,' Escrick," which was later found to be false. The Dufaycolor film was forwarded to Ilford, Ltd., for processing, and when returned the negatives were blank. The man is described as forty to forty-five years, height 6 ft., athletic build, tanned complexion, well spoken and smartly dressed in grey tweed suit and grey trilby hat. Was in possession of a motor car.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

R. S. (24/84).—GRANITE CEMENT.—The cement for sealing granite resembles in many respects sealing wax, and you could make a somewhat similar preparation from the following formula:—

Shellac	4 parts
Venice turpentine	12 parts
Resin	8 parts
Prepared chalk	6 parts
Brown umber	4 parts

In case this colour should not be sufficiently near, an appropriate proportion of vermilion could be used in place of the brown umber. A more usual formula for cementing granite is:—

Litharge	1 lb.
Quicklime	½ lb.
Linseed oil	sufficient to form a thin paste

The last-named ingredient should only be added when the cement is required, since this preparation sets hard after a short time.

R. D. (44/55).—MEDICINE STAMP DUTY.—Before a dutiable medicine is first sold or delivered out of the custody or possession of the owner, proprietor, maker, compounder, or original and first vendor, for sale, either wholesale or retail, either for foreign or home consumption or otherwise, it must be stamped. Wholesalers who are outside the terms of the "known, admitted, and approved" remedies exemption may supply the medicines unstamped provided they bear no labels, sending the labels to be affixed by the registered chemist or other exempted retailer. The Board of Customs and Excise, however, allow large-scale manufacturers to sell these remedies if their laboratory is controlled by a fully qualified chemist or a man who has served a regular apprenticeship—i.e., "the person mixing."

W. K. H. (24/74).—FRANKINCENSE.—Olibanum is commonly called frankincense. It is an oleo-gum resin derived from several species of *Boswellia*. The best account of this drug and its history are given in the monograph by Hanbury in "Pharmacographia," 1879, pp. 134-135. Olibanum owes its fragrance to an essential oil present in different qualities to the extent of 4 to 7 per cent. Frankincense is chiefly produced in Somaliland and Southern Arabia and contains about 65 to 70 per cent. of resin, 27 to 35 per cent. of gum, and 5 to 10 per cent. of essential oil. The resin appears to consist of an acid, Boswellic acid, and a resene, oliban resene, but the resin is not soluble entirely in alkali. The gum consists chiefly of arabin with a little bassorin. The essential oil contains an alcohol named olibanol and esters of borneol. Common frankincense or gum thus is rare in European commerce. In recent years this has been produced from trees of the conifer tribe. Hanbury suggested that it might be yielded by *abies excelsa*, D.C., the origin of the Burgundy pitch produced in Finland and Austria.

W. N. (31/77).—PRESCRIPTION CHARGE.—Your price for dispensing the prescription is quite correct, and the figure of 2s. 6d. is arrived at in the following manner according to the *C. & D.* Costing System:—

		d.
Sp. ammon. arom.	ʒij	2·0
Sp. menth. pip.	ʒij.	9·0
Tr. ipecac.	ʒij.	1·0
Nepenthe...	♏xl.	2·0
Syr. aromat. ... ... ad	℥iss.	6·0
Container		2·0
Oncost		8·0
		30·0d.

A. C. C. (17/77).—COLOURING HYDRANGEAS.—Alum and sulphate of iron are the chemicals used to colour hydrangea flowers blue. These chemicals are mixed with the soil, and the flowers are coloured automatically. Since you have not been successful with this method, it seems likely that the chemicals were not added at a sufficiently early period.

E. L. E. (24/77).—GEL FOR RING FORMATION.—This gel for ring formation in testing for chromates can be made by soaking finest leaf gelatin (10 gm.) in water (100 c.c.) for four or five hours in the cold, then dispersing the gelatin by heating on a water bath at a moderate temperature until the dispersion is complete. Setting of the gel takes place gradually when the mixture cools and several hours should be allowed to elapse after the setting is complete.

F. B. (21/71).—WORMS IN CHICKENS.—There are two intestinal round worms infesting chickens, viz.: (1) the round worm, *ascaris lineata*, which measures two to four inches in length (these live in the small intestine, and are comparatively easy to expel); (2) the caecum worm, *heterakis*, occurring in about 80 per cent. of the chickens and living in the caecum or blind gut. They measure only about a quarter of an inch, and as they are rather inaccessible there is much difficulty in expelling them. Prevention treatment is of great importance, and a diet deficient in vitamin A lowers the resistance to this parasite; clean ground is essential, the pens being moved to fresh ground every five or six days. Treatment is not easy, and mass dosing is very uncertain in its effects, but the following is recommended by the Ministry of Agriculture:—(1) For 100 birds, 1 lb. of finely chopped tobacco is steeped for two hours in sufficient water to cover it, and the whole mixed with half the usual ration of mash. All food should be withheld on the day previous to treatment, and on the following day the mash and tobacco should be offered. Two hours after the birds have eaten this, they should be offered one-quarter the usual ration made with water, in which Epsom salts have been dissolved at the rate of 11 oz. for every 100 birds. Repeat in ten days. (2) Ol. chenopodii mixed in a moist mash at the rate of one teaspoonful for every twelve birds. (3) Dosing individual birds with carbon tetrachloride capsules; dose, 2-4 c.c. according to the weight of the fowl. (4) Nicotine is used in individual treatment; mix 6.6 c.c. of 40 per cent. nicotine sulphate, 16 gm. Fuller's earth. Dose in capsules 0.5 gm. The above doses would be suitable for fowls; for chickens about one-third should be given. It is absolutely necessary to dose a few birds first to determine the dose and reaction.

G. F. D. (3/66).—CAR POLISH.—This preparation, which is described as cellulose cleaner and polisher for cars, is said to remove tar and grease. The directions are: Use on a small area at a time, allow to dry and then polish. It was found to contain: Kerosene, say 10 per cent.; silica, say 7.5 per cent.; water, to 100 per cent. The emulsifier appears to be soft soap, say 1 or 2 per cent. The silica is in the form of "flour."

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," August 7, 1886

Scarcity of Matured Rhubarb

Considering the small quantity of drugs offered for sale on Thursday there was a good show of rhubarb, at least as regards quantity, for the quality left very much to be desired, although there is no doubt that a matured, well-dried root would fetch a high figure and be eagerly competed for. But the ordinary stuff of which recent imports are composed is not required at all, and can only be sold at continual reductions, as was again shown. Not long ago it was reported that the Chinese authorities, at the instance of the British Minister, had pointed out to the native tea merchants the urgent importance of improving the quality of the tea exported from China. A similar recommendation to the native rhubarb growers and merchants would also appear not to be amiss. Shensi, very ordinary country-damaged pickings sold at 10½d. to 11d.; common round ditto nearly black in coat, at 6d. to 6½d. per lb.; Canton, round and flat mixed, at 1s. 3d. per lb.; high dried, flat, of ordinary appearance and country damaged, at 1s. 1d. per lb.

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Made with industrial alcohol, is penetrating but rapidly evaporates providing a cooling application that affords quick relief or acts as an effective repellent.

In sprinkler top bottles, 2 oz. 5/6 doz. net. 4 oz. 9/6 doz. net.

Name and address printed Free on three dozen.

MANUFACTURED BY
C. J. HEWLETT & SON, LTD., 35/42 Charlotte St., London, E.C.2

TABLETS and CAPSULES

COMPRESSED TABLETS
We can quote you very favourable prices for bulk or packed tablets of every description. Ask us for samples and prices.

We specialize in the manufacture of all kinds and shall welcome enquiries.

LOFTHOUSE & SALTMER LTD.——HULL

America's favourite comes to England!

In America " Alka-Seltzer " Tablets are the sensation of the chemist's trade. In four years they have grown from nothing to his biggest selling single item. " Alka-Seltzer " is a household word.

And naturally! For " Alka-Seltzer " Tablets are a great improvement over other remedies for excess acidity and all the ills which acidity causes. For the first time in pharmaceutical history, Sodium Bicarbonate, Citric Acid and Acetyl-Salicylic Acid have been combined in stable form in a completely soluble effervescent tablet.

An " Alka-Seltzer " Tablet dropped in half a glass of water makes a pleasant, sparkling, refreshing drink which counteracts excess acidity and brings instant relief to Wind, Heartburn, Pain after Eating and other symptoms of Acid Indigestion. It stops Headaches and Neuralgia in a few minutes, and is very effective for Colds, Rheumatic Pains, etc. As a safe analgesic it is unrivalled.

For the moment " Alka-Seltzer " Tablets are being advertised in a few districts, but the campaign is being extended rapidly and soon it will become nation wide. The chemist who stocks " Alka-Seltzer " now will have the nucleus of a trade that will grow enormously.

If you are interested write for full particulars of "Alka-Seltzer" Tablets and full details of exceptional introductory bonus.

SOLE DISTRIBUTORS
DON S. MOMAND LTD.,
10/15, CHITTY STREET, LONDON, W.1.

"Alka-Seltzer" Brand

Effervescent Alkalizing & Analgesic Tablets

The Miles Laboratories Inc., manufacturers of "Alka-Seltzer" Tablets, are known throughout America as staunch friends of the pharmacist and as equally staunch upholders of the principles of fair profits and fair trading. They stand behind every sale of "Alka-Seltzer" and chemists are authorised to refund without question the full purchase price of the first bottle if ever requested to do so.

Retail Prices
1/3 & 2/6
Full P.A.T.A. terms

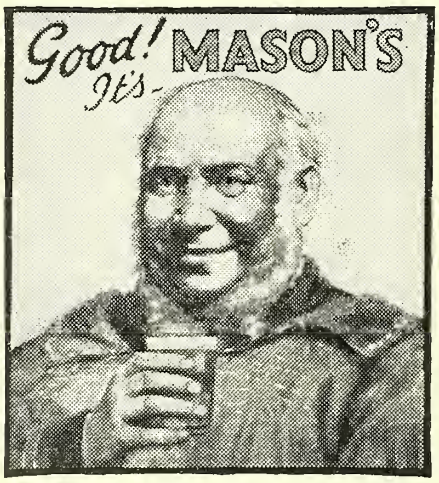
T.2.

FOUR GOOD LINES

TAMAR INDIEN GRILLON	Known for fifty years as an excellent fruit laxative. It has been constantly advertised, and advertisements are now appearing in selected high-class media.
Dr. Jaillet's PEPTO-FER	Sold throughout the world as a tonic for convalescents and sufferers from all kinds of anæmia.
RIGOLLOT'S MUSTARD LEAVES	Have long been universally famous. They are mustard plasters of exceptional strength and quality.
RIGOLLOT'S MUSTARD (for veterinary purposes)	Used in the French Army, and approved by the veterinary schools of England, France, Belgium, Switzerland and Italy.

All enquiries (except for Pepto-Fer) to :—
GUYOT-GUENIN & SON (Dept. C.D.)
59 Southwark Bridge Road, London, S.E.1.
For Pepto-Fer, please write direct to :—
Dept. C.D., DARRASSE FRÈRES,
13 rue Pavée, Paris IV, France.

MASON'S EXTRACT OF HERBS
WINDOW SHOW TERMS ARE NOW AVAILABLE



Apply for Illustrated Particulars to
NEWBALL & MASON LTD. - NOTTINGHAM

The Pharmaceutical Lanoline Co
for
LANOLINE
(Adeps Lanæ)
B.P., U.S.P. & D.A.B.6
ANHYDROUS AND HYDROUS
ALSO SUPERFINE QUALITY
FOR COSMETIC PREPARATIONS
WOOL GREASE
FATTY ACIDS
THE PHARMACEUTICAL LANOLINE CO.
CARNWATH ROAD, FULHAM, LONDON, S.W.6
Telephone : FULHAM 1194 Telegrams : BATAPO, PHONE, LONDON

Link your Pharmacy with the new 'EX-LAX' Radio Programme

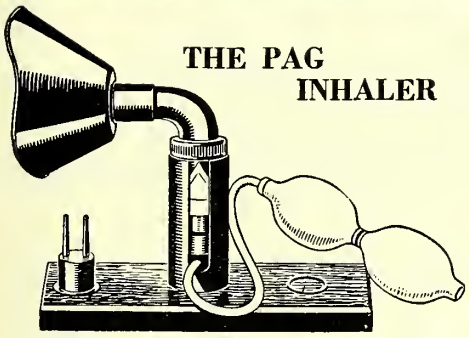
Billy Costello
Europe's Newest Thrill

"The strangest voice in the world—advise everyone to hear it."—*Glasgow Herald.*
"Soprano and bass notes are all the same to him."—*Daily Express.*
"Unique and delightfully entertaining."—*Dublin Evening Mail.*

RADIO LUXEMBOURG (1293 metres)
Every Sunday Mid-day 12.15

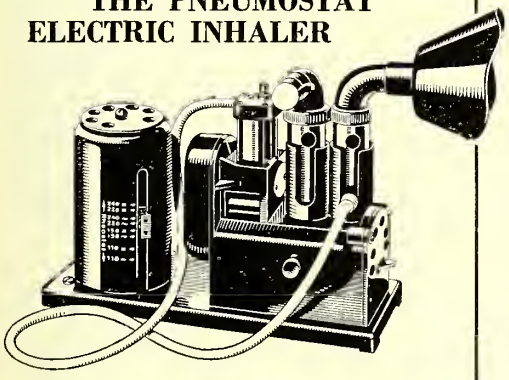
Write to-day for Showcards and details of **HOLIDAY DOUBLE BONUS OFFER** to Ex-Lax Ltd., Slough

RIDDELL INHALERS *really* RELIEVE ASTHMA



THE PAG INHALER

THE PNEUMOSTAT ELECTRIC INHALER



ANY doctor will endorse this claim and so can you. These Inhalers reach the furthest branches of the bronchial tubes. They give *instant* relief. Together with the Riddell Inhalers, which range in price from 12/6 to £25.0.0, are supplied four Inhalants now being prescribed by specialists on bronchial troubles. These, used in conjunction with the Inhalers, are effective in the most stubborn cases—they are:—

Bronchovydrin.	Sanabronchin.
Jerrofan.	Asthmasan.

The "Riddell Inhalant Remedy for Asthma" offers you a

DOUBLE SOURCE OF SALE

Write to-day for illustrated price list of

1. Inhalers and 2. Inhalants

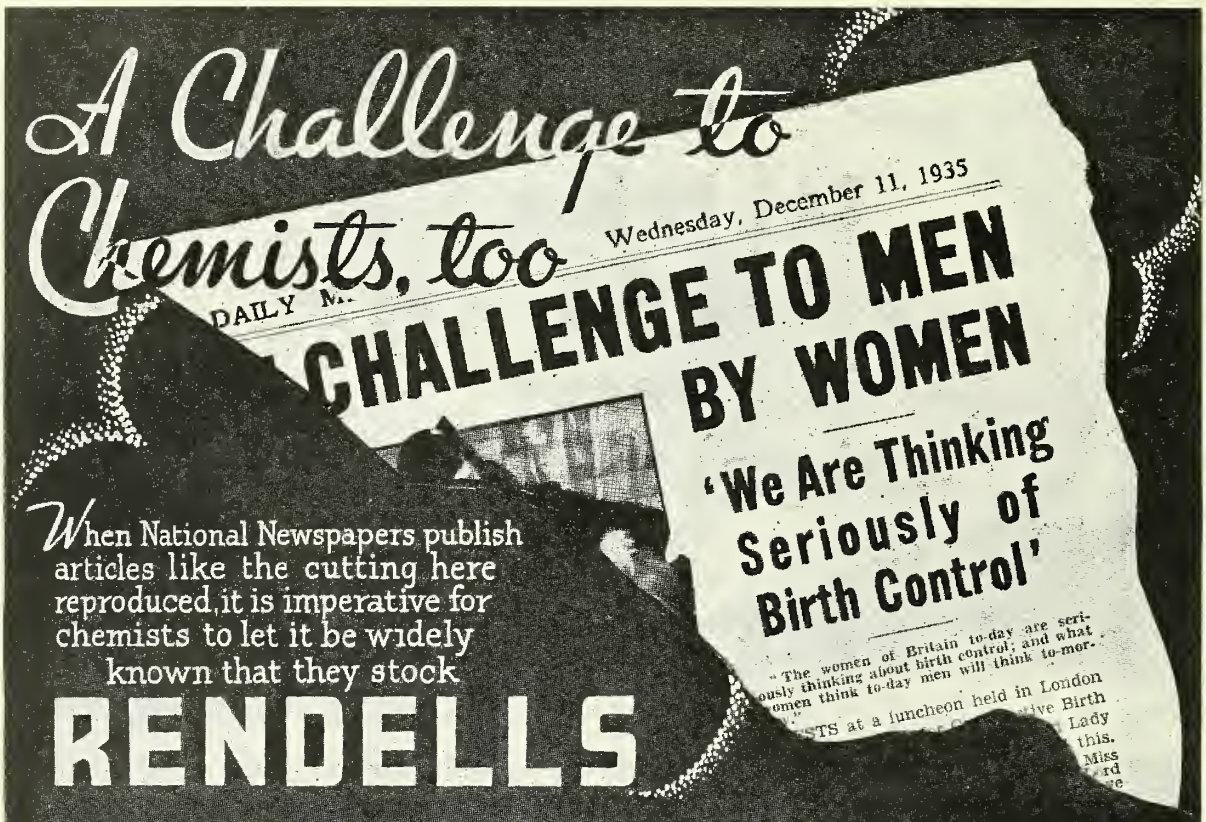
from . . .

FRANCIS RIDDELL LTD.

Axtell House, Warwick St., London, W.1

ADVERTISING NOW APPEARING IN THE PRESS AND HIGH CLASS MAGAZINES

A Challenge to Chemists, too



When National Newspapers publish articles like the cutting here reproduced, it is imperative for chemists to let it be widely known that they stock

RENDELLS

For Advertising Matter apply to W. J. Rendell Ltd 161-165 Rosebery Avenue, London. E.C.1.

A New Line in Corn Plasters
'CROCUS'
CORN COMFORT

ATTRACTIVELY PACKED IN DECORATED TIN BOXES CONTAINING 6 PLASTERS OBTAINABLE FROM YOUR USUAL WHOLESALER

Ask for details of our Special Offer

LIBERAL TERMS

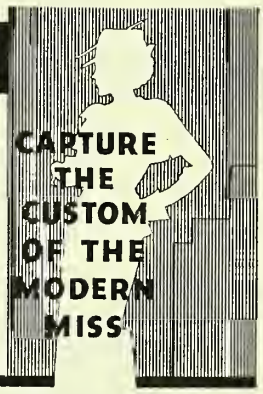
W. MATHER LTD.
MANCHESTER

SU-CAN

A soluble towel for easy disposal—and one that has unique features which place it ahead of competition. SU-CAN is an essential product for the retailer who keeps up with modern demands.

Supplies are obtainable through all wholesale houses.

ROBINSON & SONS, LTD.
CHESTERFIELD & LONDON



SOUTHALLS
SANITARY TOWELS

All the year round publicity, appearing in virtually every newspaper and magazine read by women, ensures steady sales to the dealer who stocks Southall's products.

The "ORIGINAL" and most popular,

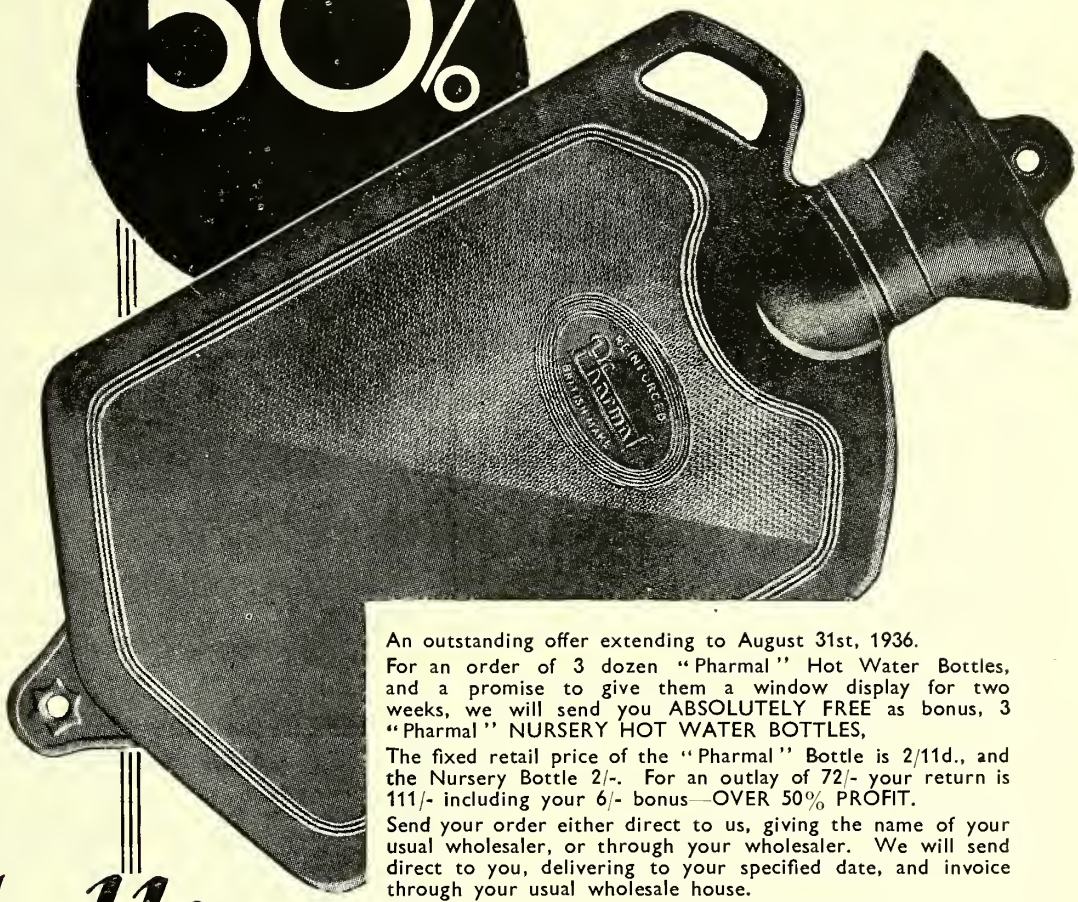
The "CELTEX" soluble, easily disposed of,

The "K" made entirely of absorbent cotton wool, with very soft cover,

The "COMPRESSED" for travelling. A very popular line,

SOUTHALLS (BIRMINGHAM) LTD.

OVER 50% PROFIT



An outstanding offer extending to August 31st, 1936.

For an order of 3 dozen "Pharmal" Hot Water Bottles, and a promise to give them a window display for two weeks, we will send you ABSOLUTELY FREE as bonus, 3 "Pharmal" NURSERY HOT WATER BOTTLES,

The fixed retail price of the "Pharmal" Bottle is 2/11d., and the Nursery Bottle 2/-. For an outlay of 72/- your return is 111/- including your 6/- bonus—OVER 50% PROFIT.

Send your order either direct to us, giving the name of your usual wholesaler, or through your wholesaler. We will send direct to you, delivering to your specified date, and invoice through your usual wholesale house.

The "Pharmal" Hot Water Bottle, approximate size 12″ x 8″, is an established pharmaceutical line with a 7 years' reputation for consistent service. The 1936 bottle incorporates all the usual safety features and now has a further improvement in the convenient handle for easier filling.

It will have added selling impetus from extensive advertising in the women's press.

Remember, August 31st, 1936, is the definite closing date for this offer—order NOW.

Colour range : Red, Blue, Green, Blue/Green, Jazz.

Selling

The "Pharmal" Nursery Bottle, which costs you nothing under the special offer and sells for 2/-. In attractive and novel carton.

Pharmal

HOT WATER BOTTLES

THE LEYLAND & BIRMINGHAM RUBBER CO., LTD., LEYLAND, LANCS.

BONUS OFFER ON STERAID REG.

SURGICAL DRESSINGS

So great is our confidence in the merits of Steraid dressings that we are making an introductory offer for a limited period only.

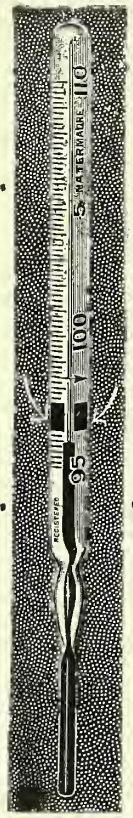
Every bona-fide chemist placing a 6-dozen or 3-dozen order of one kind or assorted will receive a bonus quantity of

ONE DOZEN or HALF-DOZEN FREE CARTONS of small Boric or Plain Steraid lint, the return on which is 7/- per dozen.

Robert Bailey & Son Ltd.

Surgical Dressing Manufacturers

STOCKPORT & LONDON



THE **"MATER" CLINICAL** REGD.

The position of the Mercury column is at once perfectly plain. Red markings above 99.4.

ALL TYPES OF CLINICAL AND OTHER THERMOMETERS

PERKEN, SON & CO. LTD.

(ESTABLISHED 1852)

Price List on Application:—

94 HATTON GARDEN, LONDON, E.C.1

Telephone: 0724 Holborn

Telegrams: "Optimus, Smith, London."

FOR SURGICAL APPLIANCES OF QUALITY GO TO HEWARDS OF TWICKENHAM

MANUFACTURERS OF

SPRING & ELASTIC TRUSSES, LADIES' & GENTS' ABDOMINAL & SUPPORTING BELTS, ELASTIC HOSIERY (SEAMED & SEAMLESS), SUSPENSORY BANDAGES, AND ALL KINDS OF APPLIANCES

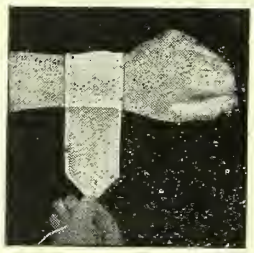
THE **R. H. HEWARD COMPANY**

CROWN ROAD WORKS

TWICKENHAM - - MIDDLESEX

'Phone: Popesgrove 2094 'Grams: Beltruss, Twickenham

An invaluable protection after Sprains or Fractures



VIC Regd.

WRIST SUPPORT

Patent No. 410258

Essential for use after the removal of splints. Popular with all sportsmen and sportswomen for its economy and reliability.

PRICE 9d. EACH

Stocked in Natural, Flesh & Tan by all leading Wholesalers.

Sole Manufacturers: Grout & Co., Ltd., London, E.C.2

NOW BRITISH MADE

WAGNER'S DRY BOTTLE CAPS

BEST IN QUALITY & APPEARANCE

Self-Fixing

R. V. WAGNER

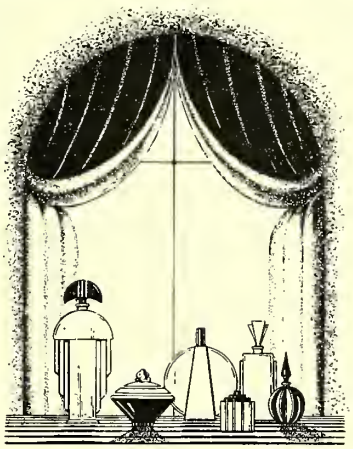
33 BROOKE ST., LONDON, E.C.1 *Tel. Holborn 5090*

SOUTHALLS
"CELTEX"
soluble
TOWELS
STANDARD SIZE
CARTONS OF 12 1/-
CARTONS OF 6 6d
SOUTHALLS (BIRMINGHAM) LTD.

TAPERED, PYRAMID, DOMED AND FLANGE **CORKS**
COMPOSITION AND BAKELITE
STOPPERS
THE MOST COMPETITIVE MANUFACTURERS IN THIS COUNTRY
MUNDET CORK PRODUCTS, LTD.
12/18 ABBEY ST., TOWER BRIDGE ROAD, S.E.1
Telegrams: MUNDETCOMP, BERM, LONDON
Telephone: HOP 2043-4-5

Armstrong's
TAPER (A) CORKS
ARMSTRONG CORK CO. LTD.,
ALDWYCH HOUSE, LONDON, W.C.2.
HOLBORN 9884/7 and HOLBORN 7503/5

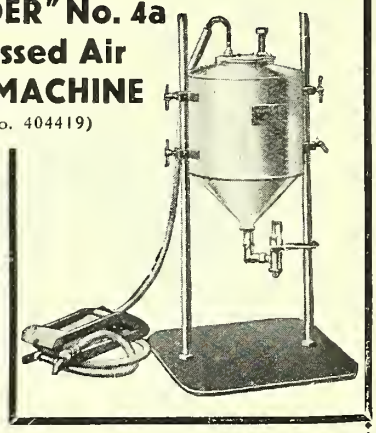
SPECIALISTS IN THE MANUFACTURE OF SOLUBLE MEDICINAL CAPSULES
BULK OR PACKED
CROWN CAPSULE COMPANY
PHONE 356
Helensburgh



Designers & Makers of Quality Glassware for Perfumery.
ESTABLISHED 1828
WOOD BROS. GLASS Co LIMITED
BARNSLEY ENGLAND

THE "LAUDER" No. 4a Compressed Air FILLING MACHINE

(Patent No. 404419)



We manufacture various types of smaller fillingmachines, and invite correspondence on your filling problems.

"*It pays for itself almost at once.*" It is used by all the leading manufacturing chemists, perfumers, etc., etc., at Home and Abroad. Is a really sound engineering job—not a toy—will give many years of trouble-free service, and fills almost any type of liquid into sprinkler neck or ordinary containers with maximum speed. Made in strong Stainless Steel in sizes of 2-gallon capacity upwards.

L. T. LAUDER
46 St. Martins Ave., LEEDS 7

Telephone: 43039. Telegrams: LAUDER, LEEDS 43039.

GARDNER'S Patent "RAPID" SIFTER & MIXER

For powdered drugs and chemicals, cosmetic and toilet powders, etc. Will blend 1 oz. with 1 cwt. with completely uniform distribution. Made in many sizes for hand or power use.

Wm. GARDNER & SONS (Gloucester) LTD.
Bristol Road, Gloucester *Telephone: 2288 (2 lines). Telegrams: "Gardner, Gloucester."*
London Office: 19 Gray's Inn Chambers, 20 High Holborn, W.C.1.
Telephone: Chancery 7347

The famous "Town Talk" Liquid Silver Polish, Silver Plate Cloth, Liquid Pewter Polish, Chromium Plate Cloth, and Cut Glass Cloth, afford you five ways to a woman's purse. They are consistently advertised in women's newspapers and journals, and their qualities make them quick-selling, repeat-order lines.

Push the "Town Talk" 5, they yield a good profit and bring customers into your shop.

ORDER DIRECT OR FROM

MANCHESTER: James Woolley Sons & Co., Ltd.
LEEDS: Goodall, Backhouse & Co.
LEICESTER: E. H. Butler & Son.
LONDON: Brooks & Warburton, Ltd. May, Roberts & Co., Ltd.
LIVERPOOL: Ayrton, Saunders & Co. Ltd.

THE TOWN TALK POLISH CO., MANCHESTER, 10

WE HAVE BEEN FITTING PHARMACIES FOR OVER 50 YEARS IN ALL PARTS OF OUR EMPIRE.

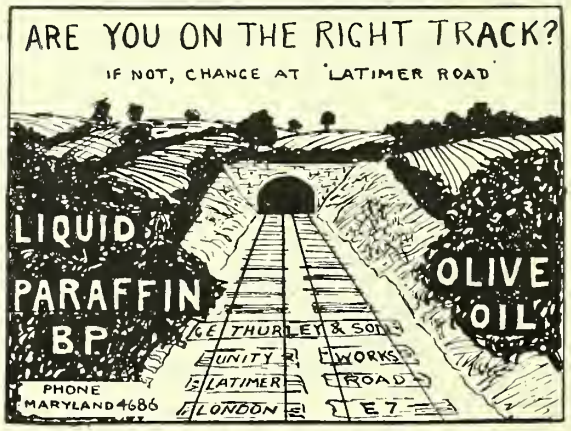
H. MILLS & SONS Ltd.

CHEMISTS' SHOPFITTERS AND SHOPFRONT MANUFACTURERS
163-5 OLD STREET, LONDON, E.C.

Let us design your Pharmacy.

Always a Large Stock of New and Second-hand Fittings.

SEND US YOUR ENQUIRIES.



GOOD PROFITS

SHERLEY'S
TONIC AND CONDITION POWDERS
CAT CONDITION POWDERS
WORM CAPSULES AND POWDERS
CANKER LOTION AND POWDER
SKINCURE
INSECT POWDER
COUGH TABLETS
FIT TABLETS
DISTEMPER CURE
FORMALIN SOAP
SHAMPOO
DRY SHAMPOO
LACTOL
LACTOL BISCUITS
2d. DOG BOOK
2d. CAT BOOK

There is always a good demand for Sherley's Dog and Cat Foods and Medicines. They are extensively advertised, and Trade Terms are generous with special extra discounts of 2½% discount on £2 parcels plus a further 5% for window display. Excellent range of Show Material supplied free. Being prepared by fully qualified analytical and pharmaceutical chemists you can recommend all Sherley Products with fullest confidence.

A. F. SHERLEY & CO., LTD., 18 Marshalsea Rd., London, S.E.1

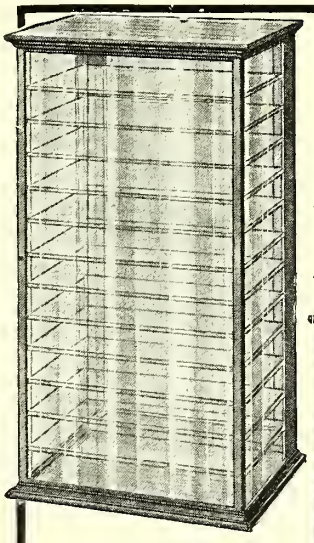
SHERLEY'S

DOG AND CAT FOODS AND MEDICINES

F. MAUND & E. BERG (SHOWCASES) Ltd.
SHOPFITTERS & SHOPFRONT BUILDERS
175/9 OLD STREET, LONDON, E.C.1
Telephone : Clerkenwell 1782/3
are offering for sale, at competitive prices, an extensive and exceptionally full range of Chemists' Fittings, Second-hand and New.

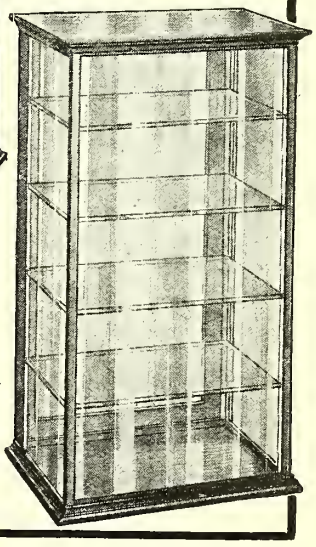
SINGLETON & COLE LTD.
THE Wholesale Tobacconists
Have had the Confidence of the Trade for well over Half a Century
PRICE LISTS ON APPLICATION
CANNON ST. - BIRMINGHAM

FREEMANS' "GARLICO"
FOR DOGS
EXPELS WORMS WITHOUT DISTRESS
A GREAT ANTI-DISTEMPER SPECIFIC
As the result of our extensive advertising in Canine Journals, Chemists are experiencing a general demand for this remarkable Dog Remedy. We are helping you ; will you reciprocate by having a small stock ? *THIS IS A CHEMIST'S LINE.*
Retail prices : 1/3, 3/3 and 10/- per bottle. Obtainable direct, or through the following wholesale Houses : Butler & Crispe, Ltd., May Roberts & Co., Sangers Ltd., W. Sutton & Co., Ltd., John Thompson Ltd., Evans Sons Lescher & Webb Ltd., T. & H. Smith Ltd., A. S. Price & Co., Ltd., Blackheath, Birmingham, Southall Bros. & Barclay Ltd., etc. etc.
FREEMANS' VETERINARY CHEMISTS LTD.
BLACKHEATH, BIRMINGHAM



USEFUL SHOWCASES FOR THE CHEMIST

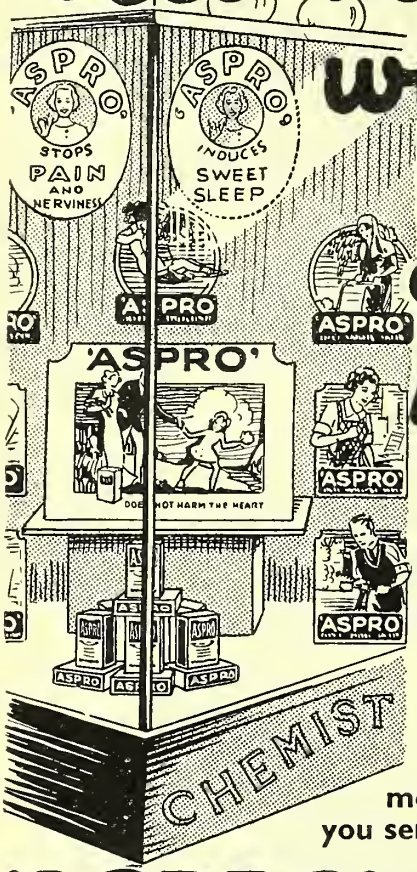
No. C.D.F. 5640
Polished Light Oak Case
30" high × 15" wide × 12" deep
Fitted 12 polished edge shelves —Hinged door at Back—Shelves Slide out
45/- each
Also Stocks Mahogany Finish 48/6



No. C.D.F. 5649
A similar case to No. 5640 but fitted 4 shelves
39/6
Mahogany Finish 42/6
Prices Nett. Carriage Extra
Send for our List No. C.D. 1695

DUDLEY & Co. Ltd.
544 HOLLOWAY ROAD
LONDON, N.7
City Showroom: 65 Fore St., E.C.

Tell them in your window that YOU stock 'ASPRO'



When you put 'ASPRO' advertising matter in your window you attract customers to your shop. Your general sales benefit. Remember, large space 'ASPRO' Advertisements are carried several times monthly by over three hundred papers, with a total circulation of over 32,000,000. You get your share in the sales activity created by this advertising when you show 'ASPRO' advertising material — just as if you spent a proportionate amount of money on the advertising yourself. We suggest you send for an 'ASPRO' display to-day. Remember,

'ASPRO' ADVERTISING produces the customers

'ASPRO' DISPLAYS bring them in

use these 'ASPRO' aids to SALES

CHEMISTS ENVELOPES AND BAGS

Kristal Envelopes 2/6 per 1,000.
Grease proof 2 oz. bags 1/- per 1,000.
Cash with order.

WINDOW STICKERS

GIANT CARTON

'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made in England by
ASPRO LIMITED
SLOUGH, BUCKS.
Telephone: Slough 608

No proprietary right is claimed in the method of manufacture or the formula.

'ASPRO' REG. TRADE MARK

AVAIL YOURSELF OF THE 'ASPRO' BONUS

BONUS ON 5's & 10's

One gross order ... Bonus 1 dozen packets
Half gross order ... Bonus ½ dozen packets
Half gross of either size is the minimum order accepted for bonus purposes

BONUS ON 25's

One Gross order .. Bonus 2 dozen packets
Half Gross order .. Bonus 1 dozen packets
Quarter Gross order Bonus ½ dozen packets
Quarter gross is the minimum quantity

NO BONUS ON 60's

BONUS CONDITIONS—

The only conditions made are that the Chemist who buys on these terms undertakes to show 'ASPRO' advertising matter in his shop window for 14 days and sell at advertised prices. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices.

[34/22]

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

AUGUST 8, 1936

ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

BUSINESSES WANTED and for DISPOSAL, PREMISES TO LET and FOR SALE, PREMISES WANTED, PARTNERSHIPS, GOODS for SALE and AGENCIES—6/- for **50** words; every additional **10** words or less, **6d.** (Box No., **1/-** extra.)

SITUATIONS OPEN—6/- for **40** words; every additional **10** words or less, **6d.** (Box No., **1/-** extra.)

SITUATIONS WANTED—2/- for **18** words; every additional **10** words or less, **6d.** (Box No., **1/-** extra.)

LEGAL NOTICES, TENDERS, AUCTIONS, and all specially-spaced announcements, **1/3** per nonpareil line (12 lines = 1 inch single column). (Box No., **1/-** extra.)

MISCELLANEOUS (Wholesalers') Section for odd and second-hand lots—**10/-** for **60** words; **1/-** for every additional **10** words or less. (Box No., **1/-** extra.)

EXCHANGE COLUMN (for Retailers, etc.)—**Twopence** per word, minimum **2/-**. (Box No., **1/-** extra.)

REPLIES FROM ADVERTISERS—1/- per line; **3** lines **2/6.**

THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2

Telephone: Central 6565 (10 *lines*). *Telegrams: "Chemicus, Estrand, London."*

CLOSING FOR PRESS

must reach us not later than FIRST POST THURSDAY MORNING

All advertisements intended for insertion in this Supplement

ORRIDGE & CO.

56 LUDGATE HILL, E.C.4

ESTABLISHED 1846 *Telephone Nos.: CITY 2283 & 7477*

May be CONSULTED at their Offices on MATTERS of SALE, PURCHASE & VALUATION

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

1.—LONDON, S.W. (MAIN ROAD).—Good Class Retail and Dispensing Business; takings average over £60 per week; heavy stock and beautiful mahogany fixtures; price about £1,750 all at, or valuation terms entertained.

2.—MIDDLESEX (GOOD CLASS SUBURB).—High Class Retail and Dispensing Business; takings exceed £3,400 per annum; gross profit over 40 per cent.; rent £150 per annum; sublet £52 per annum; heavy stock; good fixtures; price £2,500 all at.

3.—LONDON, N.W.1.—Very profitable business for immediate sale; established about 50 years ago; gross profit last year £550 under management; good, clean, saleable stock; inclusive rental £100 per annum; price for immediate sale £850.

4.—WALTHAMSTOW (DEATH VACANCY).—Main road General Retail Business; takings for year ended March, 1935, £1,307; gross profit £568; Executors are very anxious to sell forthwith and will accept an all-in figure of £650, or alternatively valuation terms would be entertained; living accommodation over which would be redecorated to suit purchaser.

5.—SOUTH LONDON SUBURB (MAIN ROAD).—For immediate sale owing to Vendor having bought another business; General Retail concern; takings average £45 per week, increasing; good profits; very attractive fixtures and good, clean, saleable stock; Neon sign and expensive personal weighing machine; price all at £1,550 or near offer, valuation terms entertained.

6.—SOUTHAMPTON (VERY NICE SUBURB).—For immediate disposal—Vendor leaving Pharmacy; takings present rate average £16 per week; attractive shop and fixtures; good, clean, saleable stock; rent and rates £78 per annum; price all at £250.

7.—SOUTHEND.—General Retail Business; takings £1,800 per annum; lock-up shop in excellent position; long lease; opportunity for further development; price all at £1,000.

8.—BOURNEMOUTH.—Old-established Business for sale owing to retirement of Vendor; in present hands over 40 years; returns for past three years average over £1,100; average annual net profit £272; rent entirely let off; price all at £450; stock worth £225.

9.—MIDDLESEX (GOOD CLASS SUBURB).—Death Vacancy—Old-established Business for immediate sale; scope for considerable increase; all in price about £350; must be sold forthwith.

10.—EASTERN COUNTIES.—General Retail Business with Photographic and Optical connection; returns average £1,650 per annum; net profit £650; single-fronted lock-up shop, well fitted and stocked; rent and rates £50 per annum; price to include lease, goodwill, stock, fixtures and book debts £1,350.

11.—CHATHAM (NEAR).—Cash Drug Store for immediate sale; net profit over £3 per week; small living accommodation; rent £40 per annum; price all at £250; Vendor retiring.

12.—LEICESTER.—Good Middle Class General Retail Business; net profit over £300 per annum; stock and fixtures worth about £520; very comfortable living accommodation with bathroom; premises can be rented or purchased; price of business £800 all at.

13.—BERKSHIRE.—Good Class Business with increasing turnover; takings present rate about £16 per week; cost Vendor £617 to open in March, 1935; price for immediate sale £660 or valuation terms entertained.

14.—OXFORDSHIRE.—Business and Branch for disposal; net profit about £900 per annum; stock and fixtures worth about £1,600; new Leases at reasonable rentals; living accommodation available; price approximately £2,750 all at; Vendor retiring.

15.—NORWOOD (NEAR).—Middle and Working Class Retail Business; established 70 years; present rate of turnover £25 per week; very good stock worth about £400; nice living accommodation; rent £70 per annum; held on lease; price all at £700 or near offer; must be sold forthwith owing to health reasons.

16.—BARNET.—Medium Class Cash Retail Business; takings last year £805; good working stock; rent £75 per annum; price about £200 all at.

17.—DEVONSHIRE.—Drug Store for sale; takings average £25 per week throughout the year; flat over; very reasonable rental; price all at £750, or £350 plus stock at valuation.

18.—WARWICKSHIRE.—General Retail Business for disposal; gross profit last year under management £438; stock worth £600; rent £100 per annum; price all at £750; scope for increase.

19.—HAMMERSMITH (NEAR).—Good Class Retail Business situate in very good position; turnover this year will be about £2,000; very nice fixtures; clean stock; stock and fixtures estimated to be worth £700; price £1,200 all at or near offer.

20.—ESSEX COAST.—Branch Business for disposal; turnover about £1,000 per annum; nicely fitted shop with flat over; rent £100 per annum; long lease; price all at £650; scope for increase.

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Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(C1) SOMERSET.—Good family business, with living accommodatiou; turnover for last financial year, upwards of £1,750; price, including leasehold property, approximately £1,400, part of which might possibly be raised on mortgage, if necessary; please supply Bankers' references in first instance.

(C2) LONDON (NORTH).—Good family business situated in middle-working-class residential area; turnover for 1935/36, £2,200; net profit approximately £450; certified accounts; very low rental; price approximately £1,350.

(C3) LONDON, N.W.—Old-established, good-class business, for sale owing to retirement; present returns £1,650/£1,750 per annum, with scope for considerable further increase; very reasonable rental which includes limited residential accommodation; price by arrangement; to the right type of prospective purchaser, the owner would consider a temporary partnership arrangement, with a view to succession, or might be prepared to allow a portion of the purchase money to remain over for a reasonable period.

(C4) BRIGHTON.—Old-established middle-class business (not seasonal) can be acquired for an immediate transaction on payment of a sum in the region of £250–£300; pharmacy attractive and well fitted; living accommodation if required; turnover capable of substantial increase; unique opportunity for chemist with limited capital; further details upon application.

(C5) CORNWALL.—Good family business, which during the past few years has shown a rapid increase; turnover for last financial year, £3,102; net profit approximately £490; rent £155; price about £1,150; immediate sale desired as Owner is moving North; exceptional opportunity to acquire sound proposition at "bargain" figure.

(C6) PORTSMOUTH (NEAR).—Recently established modern Pharmacy with no near opposition, can be purchased for the approximate value of stock and fixtures; owner unable to supervise on account of other interests; excellent future potentialities; present turnover approximately £15 per week; further details upon application.

(C7) NORWOOD.—Old-established family business with large N.H.I., now doing at the rate of approximately £1,225 per annum, but these figures should be capable of a fair amount of augmentation; rent and rates, inclusive of house above, £74 per annum; price £750, or near offer.

(C8) SOUTHPORT.—Good middle-class business with some optics, which can either be taken over or otherwise; turnover for last financial year £1,100; good scope with personal interest and attention for a quick sale will accept approximate value of stock and fixtures only.

(C9) KENT COAST.—Attractive, modern lock-up Pharmacy, situated in growing area; turnover for last financial year, £1,231, and steadily increasing; branch surgery near by; good scope under personal proprietorship; price £650 or reasonably near offer.

(C10) CHESHIRE (RETIREMENT VACANCY).—Old-established business with living accommodation; no immediate opposition; turnover upwards of £1,250 per annum; net profit £375; very low rental; large N.H.I.; price £850, including stock and fixtures estimated at £540.

(C11) EDGWARE ROAD (NEAR).—Lock-up Pharmacy with steadily increasing turnover; returns for last year, £1,364; rent and rates approximately 22/- per week only; reasonable purchase price, part of which might remain under approved circumstances.

(C12) FINSBURY PARK.—Old-established business occupying prominent position in busy main thoroughfare; present returns approximately £25 weekly, with excellent scope for increase under personal proprietorship; rent £100 per annum; flat above at present sub-let for 25s. weekly; long lease; reasonable purchase price, part of which might remain.

(C13) GLAMORGAN.—Established middle-class suburban business with good panel; turnover for last financial year, £2,068; living accommodation, including 3 bedrooms, bathroom, garage, etc.; reasonable rental; long lease; price by negotiation.

(C14) LONDON, S.W.—Exceptional opportunity for chemist with limited capital to acquire unopposed middle-class business with sub-post office, situated in populous area; the reasons for sale are quite genuine and can be fully substantiated by us from a knowledge of the circumstances; quick resuscitation should be possible under qualified personal proprietorship; first reasonable offer accepted.

(C15) HANWELL.—Drug Store which has been established over 100 years; present returns upwards of £1,200 per annum; self-contained house with up-to-date conveniences; rent £100; price for quick sale £550 representing little more than value of stock and fixtures.

(C16) FINCHLEY.—Attractive modern lock-up Pharmacy, occupying main-road position; present returns, under management, approximately £23 weekly; excellent scope for considerable further development; modern frontage; low rental; value of stock and fixtures only will be accepted for quick transactiou, and stock could be reduced if desired; excellent opportunity for chemist with limited capital.

(C17) LONDON, S.E.—Main road Pharmacy, with up-to-date self-contained flat; increasing turnover, now at the rate of approximately £1,250 per annum, and well capable of considerable augmentation, particularly when building operations in the near vicinity are completed; rent £110; genuine reason for selling; approximately £500, or near offer, will probably secure; further details upon application.

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2.—ESSEX (Market Town).—Modern High-class Pharmacy for early disposal; owner entering medical; returns average £1,750, excellent profits; rent and rates only £50; long lease; well fitted and stocked; price, all at, £1,300.

3.—BERKSHIRE.—High-class Country Retail; returning about £800, with real scope for increase; low rent; main street; modern fitted shop; price £350, plus stock at valuation, about £260.

4.—HANTS COAST.—Old-established Business; under indifferent management; returns last year £943; net profit £272; main-road position; scope for increase; owner retiring; price £485.

5.—READING (near).—Middle-class Business in residential district; returns under manager £1,100; good profits; scope for increase; corner shop with house attached; owner retiring; price £550 or offer.

6.—HERTS (Death Vacancy).—Light General Retail; in main-road position, busy town; returns last year £880; neglected; can be doubled; house attached; stock and fixtures worth £450; price for early sale £500.

7.—HOME COUNTY—Good Middle-class Business; in busy industrial town; returns nearly £1,300, net profit £324; attractive double-fronted shop; fully stocked; price £1,000.

8.—KENT COAST.—Genuine Cash Business; returning about £1,000; showing steady increase; modern premises; fully stocked; price £500, or valuation terms arranged.

9.—LONDON, S.W.16.—Good-class Light Suburban Retail; in splendid main-road position; turnover £45 weekly under management; plenty of scope; stock worth £600 to £700; price £1,385.

10.—CRYSTAL PALACE (near).—Old-established Light Retail, with P.O. attached; returns £800, P.O. £132, net profit £375; rent £45; house attached; price £500 or valuation terms plus £100 goodwill.

11.—WIMBLEDON.—Middle-class Retail showing steady increase; returns £1,200, net profit £300; good house; rent £113, inclusive; long lease; price £690 or near offer.

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BLACKPOOL.—Old-established Drug Stores, Herbs, etc.; lock-up; central position; Kodak Agency; average yearly turnover round £1,400; great scope for Qualified man; inclusive price £675 other details to genuine buyers at interview only; no agents. 62/53, Office of this Paper.

EAST MIDLAND CITY.—Progressive, with large market; new business; premises held on lease for 3 years, with option for 7, 14 or 21 years, at rental of £90 p.a., and consist of good shop with house attached, in developing district; returns so far average £12 p.w., all ready money; stock approx. £300; offers invited. For further particulars apply 285/337, Office of this Paper.

KENT RESORT.—Sound General Family Chemist; trade nearly £1,000 p.a.; stock about £300; rent 17s. 6d. net; £600 a.a. Perring & Co., Stafford Street, Gillingham, Kent.

LAKE DISTRICT.—Good-class Retail and Dispensing Business; attractive double-fronted shop, main-road thoroughfare, handsomely fitted, all mahogany; Kodak, Selo and Ucal Agencies; splendid scope for Optical; old established; present hands 19 years; good living accommodation; takings £1,300; good profits; freehold property can be purchased for £1,100 or rented £78; price required for fittings, fixtures and goodwill £400, stock at valuation. 62/9, Office of this Paper.

LONDON, E.—Old-established Drug Store; excellent position for Qualified; opposite new block of flats; in main road; no near opposition for N.H.I.; £350 for stock, goodwill and fixtures; good living accommodation, which could be sublet; sell or lease property. 62/29, Office of this Paper.

NEAR CROYDON.—Excellent opportunity for energetic man to acquire a Main-road Pharmacy, now under management, at a reasonable figure; good flat above—3 rooms, kitchen and bathroom; rent £85, rates £30; or could be let as lock-up shop; owner's premises; long lease if required. Full particulars 61/24, Office of this Paper.

DRUG STORE, opened 6 months, few hours each day, unable to give attention; takings £6 to £7 weekly; own lines; shop just fitted with drug range, etc., good scope for energetic man with knowledge of Drug trade; stock and fixtures £100, plus £25 goodwill. Apply 62/480, Office of this Paper.

LARGE TOWN, SUSSEX COAST.—Drug and Photographic Store; large double-fronted lock-up shop; rent £30 yearly; lease 3 years, renewable; great scope for increase under Qualified man and N.H.I., established as a Chemist; takings last year £540, excellent profits; bargain; price £260 all at (stock over £170). 61/14, Office of this Paper.

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BUSINESSES WANTED.

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GENUINE Buyer of a Chemist Business; well situated in good working- and middle-class district; population not less than 15,000, where scope for increase; Optics and Surgical Fittings, Trusses, etc.; no objections if present "turnover" low, providing other requirements are met; replies will be treated in strict confidence; no agents. 61/8, Office of this Paper.

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SHOP to Let in new terrace in fine developing district, Leigh-on-Sea, Essex; no opposition; fine opportunity for a Chemist; splendid living accommodation; moderate rent; early application advised. Full details apply "Owner," 22 Medway Crescent, Leigh-on-Sea. 'Phone 7385.

PREMISES.

UNIQUE OPPORTUNITY—WALTHAMSHOW.—Thickly populated area; main road; corner shop and parlour; rented on most reasonable terms or bought; ideal situation for Chemist; doctors near by; Chemist in demand; sleeping partner ready if required. Apply at once to Messrs. Girling & Sons, 111 Hoe Street, Walthamstow.

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APPRENTICES.

CHURCHILLS have a vacancy for a young man, of good education and appearance, as Apprentice at each of their branches at Chiswick and Streatham. Those having passed an examination of the Matriculation standard please apply to the Secretary, Churchills Chemists Ltd., 350 High Road, N.17.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BECKENHAM.—Qualified Locum wanted for the fortnight commencing August 31; nearest Station Kent House (20 minutes from Victoria or Cannon Street). 285/334, Office of this Paper.

BOURNEMOUTH.—Qualified Assistant; must be quick and accurate Dispenser, tactful Salesman and good Window-dresser; permanency; please state age, height, experience, salary required and addresses for references; enclose photograph if possible. Preston, Chemist, Fisherman's Walk, W. Southbourne, Bournemouth.

BRIGHTON.—Unqualified Assistant required to take charge of branch. Apply, giving full particulars as to age, references and salary required, The Secretary, H. S., Ltd., Chemists, 95 Charing Cross Road, London, W.C.2.

BRISTOL.—Qualified Assistant to act as Manager. Apply by letter, giving experience, references and salary required, 57/14, Office of this Paper.

CHANNEL ISLANDS.—Junior Assistant, Unqualified; September 7; Part I preferred; used high-class Pharmacy; experience Window-dressing, Dispensing and of good address; permanent. Full particulars, photo and references, C. M. Stone, Chemist, Bath Street, Jersey, C.I.

LONDON.—Qualified Manager, in a few weeks' time, required in a business in which there is a considerable scope for increase, for which suitable reward would be given on a commission basis; he must be young and have unimpeachable credentials and previous managerial experience for preference; please give fullest particulars as to age, height, etc., in the first letter. 62/18, Office of this Paper.

LONDON.—Wanted immediately, Qualified Dispenser; hours light, and position would suit young person or elderly man. Apply, with particulars as to age, qualifications, salary expected, etc., to 62/39, Office of this Paper.

LONDON, E.—Qualified Assistant for Middle-class Retail, with N.H.I. Dispensing; give full particulars of experience, names of references, when disengaged, age and salary expected. Apply (letter only) "Chemist," 300 Amhurst Road, London, N.16.

LONDON, N.W.10.—Young Qualified Man required as Manager of branch (about 25 years of age), with good general experience and well recommended; please give fullest particulars and salary required and when disengaged. 285/331, Office of this Paper.

LONDON, S.E.—Unqualified Youth or Young Man with fair Retail Counter experience; ability to drive car or motor cycle an asset; good opportunity for a Salesman. Apply by letter, giving age, experience, and salary, "Drugs," 7 Tranquil Passage, Blackheath, S.E.3.

LONDON, S.E.—Wanted, a Junior Assistant (Unqualified) for Dispensing and Counter. Also Junior Assistant till end of September. Apply by letter, stating age, height, experience, salary required, and when disengaged, to Rumsey & Son, 535 Lordship Lane, S.E.22.

LONDON, S.E.—Young Qualified man required for branch, with good general experience and well recommended; please give fullest particulars and salary required, and when disengaged. Also a locum for one month at least. 62/41, Office of this Paper.

NEAR MANCHESTER.—Wanted immediately, elderly Qualified Lady or Gentleman; easy hours; permanency; please state full particulars in first letter as to salary, etc., required. 62/24, Office of this Paper.

SOUTH COAST.—Gentlemanly Junior Assistant, with Dispensing experience, for good-class business; easy hours; permanency; full particulars in first letter; applications unanswered in 4 days declined with thanks. 60/8, Office of this Paper.

STOCKPORT.—Wanted, young Unqualified Assistant, male, single; outdoors; just out of apprenticeship preferred; industrial district; send all usual particulars, references, salary required, and when disengaged; applications not answered in 7 days declined with thanks. 62/34, Office of this Paper.

A.A.—QUALIFIED Relief required for September 17 and 18 and September 25 and 26. Please give particulars and salary required to 62/28, Office of this Paper.

A CAPABLE Improver or Junior Assistant (about 21) required for September 1; permanency; good knowledge Dispensing, Photography, Window-dressing; state salary required, references, etc. Holden, High Street, Walton-on-Naze, Essex.

A CAPABLE Unqualified Assistant (20-25) required end of August for middle-class business; permanent and progressive post for the right man; interview required. Write A. Stallard, Chemist, West Drayton, Middlesex.

A QUALIFIED Assistant required immediately for London district, male or female. Full particulars first letter, Woodlands Chemists Ltd., 28 St. John's Lane, London, E.C.1.

CHEMIST (Qualified), smart all-round man required; permanency, with splendid prospects of an interest in the company; salary and share of profits. Apply Amblins (Chemists), Ltd., 319 Edgware Road, W.2.

JUNIOR Assistant required; good all-round experience; quick and reliable Dispenser essential. Give fullest particulars, in first letter, of experience, age, salary required, when disengaged, Massingham's Ltd., 34c Green Street, London, E.2.

JUNIOR Lady Assistant required shortly; Dispensing, Window-dressing and High-class Toiletries; interview. Full particulars to Bruce, Chemist, Westcliff-on-Sea.

JUNIOR Unqualified Assistant or Improver wanted for good-class Dispensing Business. Full particulars to R. C. Harrison, Beacon Hill Pharmacy, Hindhead, Surrey.

LADY Assistant, one used to General Counter Trade, with a knowledge of Dispensing, N.H.I., for branch. Apply with full particulars, to Bewells', Ltd., 19 and 21 Pitfield Street, N.1.

LADY Assistant, Unqualified, required early in September (age 25-30) for Counter and Window-dressing, with Dispensing experience. Please give full particulars of experience and salary required to Edgar Davies, 59 Dudden Hill Lane, Willesden, London, N.W.10.

LADY Dispenser, Hall certificate, part time, required for Doctors' Surgery. Apply with full particulars, letters only, to "G.," 8 Canning Road, Croydon.

LADY, Qualified, as Assistant in good-class Family and Dispensing business in London, S.E. State age, experience and salary required to 62/2, Office of this Paper.

LOCUM, Qualified, August 17-29, inclusive. Dyer's Pharmacy, 33 Honor Oak Park, S.E.23. Telephone: Forest Hill 6054.

LOCUM.—Qualified Lady or Gentleman for a few weeks' full-time duties; help provided; please state age, experience, year of qualification, salary desired (outdoors), references and when disengaged in first letter. Hinchco, Chemist, Tunstall, Staffs.

LOCUM.—Qualified Lady or Gentleman required from August 17-22 inclusive; light Retail business; one Assistant. Apply Miss A. McCarthy, M.P.S., The Grove Pharmacy, 48 Thornton Road, Thornton Heath. Telephone: Thornton Heath 1217.

LOCUM (Qualified lady or gent.) required to take charge for 14 days, last fortnight in August or thereabouts; must have first-class credentials. George F. Corrall, 569 Hertford Road, Enfield Wash, Middlesex.

LOCUM, Qualified; one week, August 17-22; duties very light. Apply, stating wage, to Phargène Ltd., 10 Cork Street, W.1.

LOCUM, Qualified, required for Blackpool, September 5-19, both dates inclusive; good appearance (35 or over); used to Photographic. Apply, with particulars of salary, etc., to 62/22, Office of this Paper.

LOCUM.—Qualified required for two weeks commencing August 31; would suit recently Qualified. Brook, Chemist, 155 Lavender Hill, S.W.11. 'Phone: Battersea 2167.

LOCUM, Qualified; September 18 to October 2, inclusive, or dates could be arranged. Collitt, Chemist, Holland-on-Sea, Essex.

LOCUM, Qualified, wanted for 2 months from August 17. Apply, stating age, experience, salary required, to Head Office, Wm. Fox & Sons, Ltd., 109-111 Bethnal Green Road, London, E.2 (10 minutes from Liverpool Street).

MALE M.P.S. Dispenser required, previous Hospital experience essential, to start on Saturday, August 15; hours normally 9 a.m. to 5 p.m., Saturday 9 a.m. to 1 p.m.; no Sunday duty; there are 118 beds and a large out-patient department. Applications, stating age, experience, salary required, together with not more than 3 recent testimonials, should be received by first post Wednesday, August 12, The General Secretary, Connaught Hospital, E.17.

MANAGER (Qualified) required shortly, with Agricultural experience, to take charge of branch; salary and commission. Apply, giving full particulars of experience and references, Blake, Chemist, Gainsborough, Lincs.

PERMANENCY for Qualified Assistant, lady or gentleman; must be capable and energetic. Write, stating age, experience and salary required, to Smith's Ltd., Highfield Pharmacy, Highfield Lane, Keighley, Yorks, West Riding.

PHARMACY.—Qualified Chemist required to take charge of Retail Branch; must be a thoroughly capable and experienced man. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society Limited, 148 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." *Note.*—Canvassing of members of the General Committee or officials will disqualify.

PHOTOGRAPHIC.—Wanted, Junior Assistant; Salesman with some experience who wishes to progress in the Photographic trade. Wallace Heaton, Ltd., 127 New Bond Street, London, W.1.

QUALIFIED Assistant for busy Pharmacy in City; to start immediately; knowledge of Optics preferable, but sound Pharmaceutical training essential. Full particulars as to age, experience and salary to 62/14, Office of this Paper.

QUALIFIED Assistant (lady or gent.) required for working-class Pharmacy, W. district; experience not essential. Apply, enclosing references and stating salary required (which must be moderate), to E. Wilson, 95 South Hill Park, Hampstead, N.W.3.

QUALIFIED Assistant, male (as Superintendent), wanted for Country Business in West of England, at once; permanency; must be reliable and have had N.H.I. experience. State age, references, salary required, etc., to 64/1, Office of this Paper.

QUALIFIED Assistant required; permanency. Full particulars as to age, height, experience, references and salary required, to Venables, Chemist, 260 Upper Tooting Road, S.W.17, or 'phone Streatham 2443.

QUALIFIED Assistant, Scot preferred, required August 23; permanency to suitable applicant; North London; send photo if possible and state salary required. 62/51, Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

QUALIFIED Assistants for East London Business wanted immediately; permanency. 'Phone Bishopsgate 4449 for interview or write 63/10, Office of this Paper.

QUALIFIED Lady or Gentleman (young) to manage branch Pharmacy; good Window-dresser and selling ability essential. Particulars in writing, 30 Stafford Road, Waddon, Croydon.

QUALIFIED Lady required immediately; young, smart and used to all branches of Retail Pharmacy; newly Qualified Scot preferred. Please state salary, experience, etc., to Watkins Pharmacy Ltd., 379 St. John Street, E.C.1.

QUALIFIED Locum, 2 weeks, August 17-29 or September 7 onwards, for Plumstead. Grater, 2 Oldfield Road, Bexleyheath. Woolwich 0636.

QUALIFIED Male or Female Junior Assistant required, to commence at once; permanency; applicants must have sound knowledge of Window-dressing in addition to pleasing Counter Manner and usual routine, Photography, etc. 'Phone Rodney 4097 for interview.

QUALIFIED Manager for branch required by August 19; permanent or temporary; good Counterman and Window-dresser; with good recent references; please state full particulars, with photo and salary required. Lester, Chemist, 1 Station Road West, Canterbury.

QUALIFIED Manager for Drug and Photo Department; permanent position for energetic, enterprising man; Store experience an advantage; give full particulars of previous experience, age, salary required, photo and copies of references. Jarrold & Sons, Ltd., Norwich.

QUALIFIED Manager wanted for branch at once. H. Pickett, Chemist, Farnham Common, Bucks.

QUALIFIED Pharmacist wanted for small branch business; no Sunday duty. Write, giving usual particulars, to Beck, 60 High Street, Stoke Newington, London, N.16.

REQUIRED.—Qualified Man as Assistant Manager in permanency at well-established business near London; state fullest particulars in first letter, also photo if possible. Also Locum for two weeks from August 11. 59/4, Office of this Paper.

TEMPORARY Assistant, Qualified, for 2 weeks from August 17; suit recently Qualified; send particulars and references. Garlick, Chemist, Chesham.

TWO Young Gentlemen, Qualified and Unqualified; good appearance and address; permanency; high-class business; London suburb; pleasant locality near Epping Forest; applicants must be alert and neat, possessed of keen interest; Salesmanship and Commercial side generally; full experience and when disengaged. L. Matthews, 97 George Lane, South Woodford, Essex.

WANTED as soon as possible for business in S.W. London, Qualified elderly gentleman to act as Superintendent; light duties; permanency; registration fee paid. Reply, giving particulars and salary required, to "C.," 14 Oakwood Avenue, Mitcham, Surrey.

WANTED August 24, Qualified Lady Assistant, Junior preferred. Full particulars to Watkinson, Chemist, 384 Lordship Lane, Tottenham, N.17. Applications not answered in 7 days respectfully declined.

WANTED for West Riding, Lady or Gentleman; Qualified Superintendent; light hours and duties for reasonable salary; suit elderly or delicate person. Apply, giving particulars and salary required, 61/19, Office of this Paper.

WANTED immediately, competent Assistant (gentleman) (about 30) with good-class Dispensing, Counter and Window-dressing experience; tall; energetic; permanency to right man. Please give full particulars as to experience, age, height, salary required and photograph if possible, to Hill & Shaw, 357 High Street, Cheltenham.

WANTED immediately, Qualified Manager; also Qualified Assistant (lady or gent.). Please state experience, etc., to C. H. White, Ltd., Market Place, Oldbury, Birmingham.

WANTED immediately, Unqualified Assistant (male or female) for Dispensing and Counter. Send full particulars, with photo if possible, in first letter, Arthur W. Foot, M.P.S., 148 Fisherton Street, Salisbury.

WANTED.—Qualified Chemist to take charge of small Dispensary in Retail Pharmacy situated in Essex; comfortable berth to steady man. Apply, with full particulars and salary required, to 64/2, Office of this Paper.

WANTED, South Devon Coast (near Torquay), Unqualified Junior Assistant, male or female (single), for Dispensing and Counter. Apply, giving references and salary required (outdoors), to 284/327, Office of this Paper.

WANTED.—Unqualified Lady Assistant for Drug and Optical Department. State age, wages and full particulars of experience not later than Saturday, August 15, 1936, to General Manager, Brighouse District Industrial Society, Limited, King Street, Brighouse, Yorks.

YOUNG Lady, Qualified, required for locum; commencing either August 29 or 31, for a fortnight; part-time preferred. Apply 6 Porchester Road, Bayswater, W.2.

WHOLESALE.

SOUTHERN COUNTIES FROM KENT TO CORNWALL.—Part-time Representative; possessing own car; attractive series Branded Medicinal and Toilet Products, Original Sales Scheme, Display and Sampling; remuneration, part expenses and commission; state territory, nature of other representation; enclose recent photo. 61/26, Office of this Paper.

SOUTH WALES.—Experienced Representative wanted for London House; Drugs and Packed Goods. Apply by letter, stating experience and salary required, 285/335, Office of this Paper.

POWDER PUFFS AND SPONGE BAGS.—Manufacturer requires Agent calling best to medium Retail trade; large range; commission only; active connection handed over. 60/11, Office of this Paper.

QUALIFIED Chemist required by Manufacturing House; experience of keeping Dangerous Drugs Records and some knowledge Poisons Law desirable. Write, stating salary required and age, to 285/332, Office of this Paper.

REPRESENTATIVE, good connection, required S.E. and E. London; carry sidelines, one nationally advertised; part expenses if desired could be arranged after reasonable trial; references required. P.C.B. 213/4, Office of this Paper.

REPRESENTATIVES (Qualified Pharmacists) of good address and experience required for Medical and Pharmaceutical Propaganda in connection with nationally advertised products; candidates who can fulfil the above conditions, but with actual experience in the London and Home Counties area, West Country, Lancashire and Scotland, will receive preference; progressive remuneration to suitable candidates. Applications, giving full details and enclosing photograph (returnable), to be forwarded to 285/338, Office of this Paper.

TRAVELLERS covering Northern England desirous of additional quick-selling line on liberal commission should write, stating exact area covered and full particulars to 61/28, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.—MANAGER (35), Qualified, single, London (suburban or West End), requires permanency; capable Salesman, Window-dresser, experienced Photographic and Toilets. "Pharmacist," 53 Prown Street, Egham, Surrey.

A.A.—UNQUALIFIED, married, requires position, or would consider partnership; London preferred. "Chemicus," 1A Redcliffe Gardens, South Kensington, S.W.10.

ASSISTANT; all-round experience Dispensing, Counter; single, active, Unqualified; elderly; moderate salary. Statim, 42 Fenton Road, Lockwood, Huddersfield.

ASSISTANT, Unqualified; experienced Dispensing, Counter; locum, permanency; disengaged. August 15th. F. Ham, 10 Disraeli Road, Putney, S.W.15.

ASSISTANT (26), Unqualified, desires change; permanency; 8 years' all-round experience London and Provinces; free September 12. 62/12, Office of this Paper.

ASSISTANT (23), Unqualified; excellent refereuces; Counter and Dispensing; used to large N.H.I.; full-time, part-time, locum. P.C.B. 213/15, Office of this Paper.

CHEMIST, Lady, Irish qualification, sound experience in all branches, excellent testimonials, very energetic, desires position as Assistant, or Dispenser to Doctor. 61/17, Office of this Paper.

CHEMIST (28) desires permanency with high-class Pharmacy, West End or City; excellent experience. "Chemist," 67 Guilford Street, W.C.1.

ELDERLY Qualified Chemist, reliable, active, seeks part-time post; Superintendent, Dispensing; terms moderate. 61/21, Office of this Paper.

LOCUM, disengaged August 10; good experienced man; middle-aged. "Ajax," 1 Hillfield Avenue, Cadwell Lane, Hitchin, Herts.

LOCUM, Qualified, experienced, free August 10 to August 23, also September 19 onwards. Reid, 304 London Road, Whitley, Coventry.

LOCUM, Qualified; good varied experience and references; disengaged August 31. S. T. Hoskins, M.P.S., c/o Messrs. Sunman, Pharmacists, 43 Wellington Street, Luton, Beds.

MANCHESTER OR SALFORD.—M.P.S. (39), male, requires Managership; experienced all branches; good Dispenser, Window-dresser, Counter and Prescriber; abstainer, trustworthy; excellent references; free one month from engagement. "Pharmacist," 247 Regent Road, Salford, Lancs. Tel.: TRA 0765.

QUALIFIED, elderly, active; locum or permanent. W. T., 406 Caledoniau Road, London, N.7.

QUALIFIED, experienced Manager (35), married, desires permanency; with living accommodation preferred; thoroughly competent; highly recommended. Chemist, 1 Castleton Road, Goodmayes, Essex.

QUALIFIED Lady Dispenser (19) requires post; knowledge Book-keeping, Typing; intelligent, good appearance, some experience; London district preferred. 285/336, Office of this Paper.

QUALIFIED Locum; disengaged August 24 to September 1; highest references; fully experienced. N. P. V. Jenkins, c/o Dyer, Chemist, Honiton, Devon.

QUALIFIED Locum; experienced; trustworthy; free September 14 onwards. Harris, 209 Chevening Road, Brondesbury Park, N.W.6.

QUALIFIED Manager (38), competent, experienced, requires progressive post, permanency; S.W. London preferred; excellent references; free one month. 61/25, Office of this Paper.

QUALIFIED Manager (27), Scot, married, desires change; permanency, London or South Coast; experienced all branches; good Dispenser, Window-dresser, Counter and Prescriber; trustworthy; excellent references; minimum salary £275. 62/32, Office of this Paper.

QUALIFIED Scot (35), married, desires permanency; 10 years' managerial experience; thoroughly trustworthy; highest references; living accommodation preferred. 61/10, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.

QUALIFIED (39), disengaged; locum or perm. Griffiths, Chemist, Aberbank, Llandyssil.

QUALIFIED (24) as Manager or Assistant in the Eastern Counties; all-round experience; London and country. W. A. Nokes, Wroxham, Norwich.

QUALIFIED (37), married, active, conscientious, will be compelled to relinquish present post for health reasons, requires in autumn sound permanency; S.E. or accessible thereto preferably. "W.," 220 Camberwell New Road, S.E.5.

UNQUALIFIED, long experience sole control, desirous very light post; nominal remuneration; competent, trustworthy; experienced at Counter and Prescribing. 61/22, Office of this Paper.

UNQUALIFIED (30), married, desires change; 14 years' thorough experience; Buying, Prescribing, Display, Dispensing, Photographic, Surgical, Counter; tall; good appearance. 62/37, Office of this Paper.

UNQUALIFIED (27) seeks post in Chemist's or Drug Stores (8 years); S. London preferred. 47 Palace Road, Bromley, Kent.

UNQUALIFIED (29), tall, capable, first hand, locum or permanency; best reference; free August 23. C. Alcorn, 7 Malvern Avenue, South Harrow, Middlesex.

WOMAN Dispenser, Hall certificate, desires locum or permanency; free after August. 233 New Cross Road, S.E.14.

YOUNG Qualified Pharmacist, knowledged in Veterinary, Agricultural, Retail and Wholesale Pharmacy, seeks City or West End berth in Retail or Wholesale; languages. 62/36, Office of this Paper.

WHOLESALE.

A.—TRAVELLER, covering London to South Coast, desires additional Agency firm of repute; part expenses and commission; Drug or Sundry; or full-time post considered. 63/3, Office of this Paper.

ADVERTISER desires post Representative, Southern Counties; Pharmacy trained, 16 years one firm; disengaged; own car; references excellent (details Sales Manager, 'Phone Hop 0707). "M.," 57 Huxley Road, Welling.

EXPERIENCED Chemist desires change; used to supplying Doctors, Chemists, Vets.; capable of taking charge. 57/8, Office of this Paper.

EXPERIENCED Traveller of highest integrity (M.P.S., F.B.O.A. (Hons.)), desires represent one really good house (Complete Druggists' Sundries), commission basis; Perth to Thurso (own car), with Aberdeen as centre, where have stockroom and staff; bankers' refs.; state commission. 284/300, Office of this Paper.

FOREWOMAN, widow (age 34 years); disengaged; 5 years' experience with leading Toilet house, Belt work. 61/16, Office of this Paper.

PROFESSIONAL/TRADE PROPAGANDA, SALES. — Doctors, Chemists, Licensed Traders; car; long experience; salary and expenses. "Boaz," General Gordon Hotel, Weymouth.

WELL-KNOWN Representative, 15 years' experience Lancs, Yorks, 1,400 accounts with Chemists, Stores, Co-op. Societies, at liberty to represent progressive house; competent to take full charge of sales and organise house-to-house sample distribution if desired. 62/55, Office of this Paper.

WILL any firm who requires a first-class Representative give young man interview? Excellent references; hard worker; own car; 13 years Retail; will be in London August 12-14. 62/3, Office of this Paper.

WORKS Manager or/and Chemist, 15 years with leading Pharmaceutical houses, contemplates a change; fully experienced; a little Retail experience. "M.P.S.," 163 Burntwood Lane, S.W.17.

COLONIAL, INDIAN AND FOREIGN.

FULLY Qualified Chemist, taking up residence Cape Town mid August, wishes represent Chemical, Pharmaceutical, Cosmetic Products; undertake Manufacturing if required. 60/14, Office of this Paper.

QUALIFIED (38), single, speaking Italian, Spanish, Portuguese, French, desires charge, abroad or West End, Representative or Manager. 283/277, Office of this Paper.

FOR SALE.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

NATIONAL Cash Till; prints all sales; gives total inside; little used; snip. Write: P. Dudley, 10 Elsie Road, S.E.22.

OAK Trial Case, with roll top; 140 sphs., 84 cyls., 16 prisms, 2 double, 18 discs, coloured, etc., 4 Maddox rods, 2 drawers, lock, £17 10s. Also Turville Stewart Ophthalmoscope, hand slit lamp and retinoscope, with transformer, £5. Hand Perimeter, 20s. A. Newton, F.B.O.A., 20 Salisbury Drive, Sedgley Park, Manchester.

TWO Upright Mahogany Wall Cases, 8 ft. 6 in. by 8 ft. 6 in. long; one Glass-fronted Mahogany Counter Case, 3 ft. high by 9 ft. long by 1 ft. 6 in. deep; also Mahogany Window Enclosure 9 ft. 9 in. long by 7 ft. 6 in. high by 3 ft. 6 in. deep; all in good condition; reasonable price to clear. 285/333, Office of this Paper.

MISCELLANEOUS.

10s. for 60 words or less ; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A. BERNARD SLACK has written for benefit of Chemists and their friends a short article headed "*Why you should convert your business into a private limited company,*" and cost. Write for a free copy, study it and be wise and act on free advice given. 721 Princess Road, West Didsbury, Manchester.

CHEMISTS' FITTINGS.—New and Second-hand Drug Runs, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shopfitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

FOR Quick Sale.—U-shaped Steam-heated Drying Machine with Mixing Agitator, also similar for Gas-heating. 284/320, Office of this Paper.

FOR SALE.—Edge Runner Mill with cast iron Pan and two runners 30 in. by 8 in. wide, also 3 ft. and 3 ft. 6 in. Portable Stone Mills, with stones complete. 284/323.

FOR SALE.—Large capacity Steam-heated Dryer with internal Agitator, also jacketed Rotary Mixer and Dryer, 8 ft. long 3 ft. diameter. 284/321, Office of this Paper.

FOR SALE.—Tumbling Barrel type Mixer mounted over Sifting Machine with Receiving Box, all mounted in wood frame. 284/318, Office of this Paper.

FOR SALE.—Two "Griveau" Mixers, wood bodies with Sifters fitted under, and Receiving Drawers for sifted powder. 284/319, Office of this Paper.

FOR SALE.—Two heavy type Werner Mixers, Water-jacketed, size of Pans 3 ft. by 2 ft. 9 in. by 2 ft. 6 in., also smaller capacity machine. 284/324, Office of this Paper.

FOR SALE.—Vertical Grinding Mill with 12-in. stones, also similar with 30-in. stones. 284/322, Office of this Paper.

£74.—BARGAIN in Shop-soiled Mahogany Fittings, comprising 10-ft. Drug Fitting, 6-ft. Wall Case, 8-ft. Glass-fronted Counter, 6-ft. Dispensing Screen, Counter Drawers. PHILIP JOSEPHS & SONS, LTD., 90/92 St. John's Street, Clerkenwell, E.C.1. Telephone: Clerk. 4111/2. "Pharmacy Fitters for over a Century."

£9—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting. Signs and Modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

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372 FLINDERS LANE, MELBOURNE, AUSTRALIA
55A SHORTLAND STREET, AUCKLAND, N.Z.

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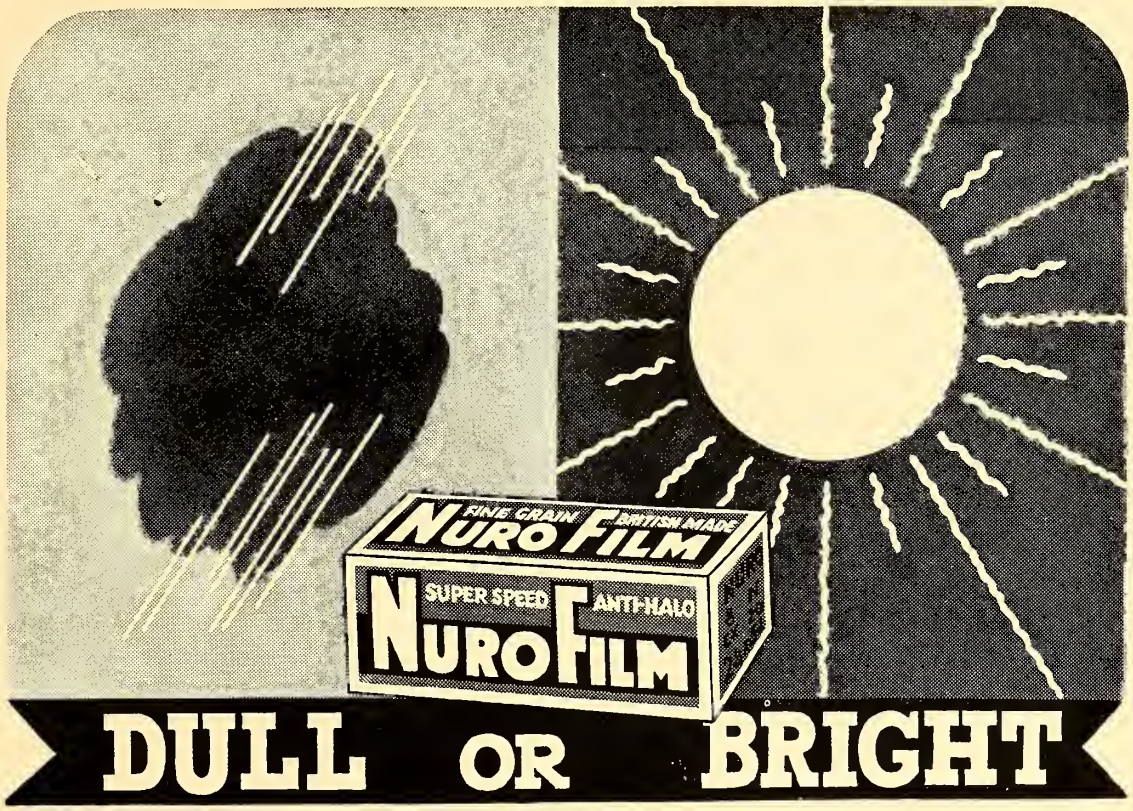

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